

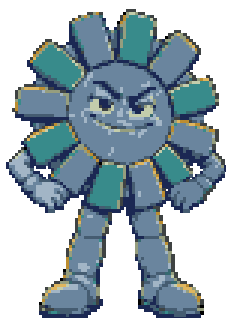
# THE VILLAIN STITCH CLUB

Cross-stitch patterns for a standard 12-inch hoop



**WiFi Gremlin**

Pattern starts on page 5



**Benny Buffer**

Pattern starts on page 10



**Cable Guy**

Pattern starts on page 15



**Promo Peat**

Pattern starts on page 20



**Fine Print**

Pattern starts on page 25



**Glitchy Ghost**

Pattern starts on page 30



**Data Cap**

Pattern starts on page 35



**On Hold Hank**

Pattern starts on page 40

**98 x 112 stitches | 14-count Aida | 7 x 8 inches**

Each design includes a color preview, DMC floss key, exact stitch counts and four enlarged black-and-white symbol charts. Patterns use full crosses only, with no backstitch, fractional stitches or blended threads.

# MATERIALS & HOOP FIT

Standard specification for all eight designs

## Fabric

One 18 x 18-inch piece of white or ivory 14-count Aida per villain. Count is holes/stitches per inch. Each X goes over one Aida square.

## Hoop and needle

A nominal 12-inch embroidery hoop; a size 24 tapestry needle with a blunt tip; embroidery scissors; an optional washable fabric marker tested on a scrap.

## Thread

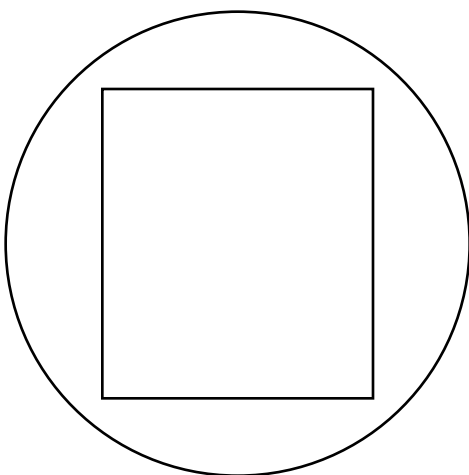
DMC six-strand cotton floss. Use TWO separated strands for every full cross, not all six strands. Floss codes and quantities appear with each villain.

## Finished size

98 columns / 14 = 7 inches wide. 112 rows / 14 = 8 inches high. The chart rectangle has a 10.63-inch diagonal, so it fits inside a nominal 12-inch circle when centered.

## Centering

Leave the blank fabric blank. Center the full 98 x 112 chart in the hoop. The design itself is smaller than this chart rectangle. All eight use the same chart dimensions.



Fit diagram (not actual size)

Other counts: 16-count = 6.13 x 7 inches; 18-count = 5.44 x 6.22 inches. Both fit a 12-inch hoop. Do not use 11-count for these charts in a 12-inch hoop: the full chart rectangle would exceed the circle.

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# FROM FABRIC TO FINISH

Follow these steps for each villain. The chart controls every stitch.

## 1. Prepare the fabric

Finish raw edges with a zigzag stitch, serger or masking tape. Fold the fabric twice to locate its center. Smooth it into the hoop until snug, without stretching the weave.

## 2. Find the chart center

The exact center lies BETWEEN columns 49 and 50 and BETWEEN rows 56 and 57. Mark that fabric intersection temporarily. Tiles meet at this center; no rows or columns overlap.

## 3. Thread your needle

Cut a comfortable length, separate two strands, and thread both through the needle. Leave a short tail and secure it under several stitches on the back. Avoid bulky knots.

## 4. Make a full cross

Bring the needle up at bottom left and down at top right for /. Return up at bottom right and down at top left for the crossing slash. Keep the top leg in the same direction throughout.

## 5. Work in small areas

Start near the center and stitch one symbol/color at a time in a small area. Count blank squares carefully. Secure the thread and restart rather than carrying long dark strands across blank fabric.

## 6. Check as you go

Compare against the preview and the global row/column numbers. Cross off completed chart cells on a copy. Change color whenever the chart symbol changes.

## 7. Finish and mount

Secure thread ends beneath stitches. Remove temporary marks according to the marker instructions. Follow fabric/floss care guidance; test a scrap first. Press gently from the back, then center and lace the fabric in the hoop.

# A SYMBOL IS ONE CROSS

All eight patterns use the same reading rules.

## Four non-overlapping tiles

A = columns 1-49, rows 1-56. B = columns 50-98, rows 1-56. C = columns 1-49, rows 57-112. D = columns 50-98, rows 57-112. Join A/B on top and C/D below. Do not add or repeat rows.

## Grid and coordinates

Thin lines mark individual stitches; bold lines mark every tenth global row and column. Edge numbers refer to stitch rows/columns, not inches. Center arrows identify the midpoint of the full chart.

## Symbols and blank cells

Each printed letter represents one full cross in the floss listed in that villain's key. An empty cell means NO STITCH: show the base fabric. Winter-white stitches have the S symbol; they are not empty cells.

## Color and quantities

The overview is a pixel/stitch preview, not a photograph of a finished stitched sample. Printed colors are approximate. Use the DMC code as your purchasing reference and check actual thread colors in daylight.

## Floss estimates

The buy column is a conservative allowance of one 8-meter skein per 1,200 crosses of that color, rounded up. It includes handling waste but is an estimate, not a guarantee. Long carries or repeated unpicking use extra thread.

## Pattern adaptation

These compact full-cross adaptations simplify tiny logos, text, fabric texture and line details. No extra backstitch is implied. Intermediate skill is recommended because the portraits include many color changes.

## Technique references

[dmc.com/US/en/sbs-cross-stitch-stitch-diagrams](https://dmc.com/US/en/sbs-cross-stitch-stitch-diagrams)

[dmc.com/US/en/products/aida-embroidery-fabric](https://dmc.com/US/en/products/aida-embroidery-fabric)

General technique guidance; original Dobson pattern adaptations.

# WiFi Gremlin

98 x 112 stitches | 7 x 8 inches on 14-count Aida | 12-inch hoop



## FLOSS KEY

| Symbol                                                                              | DMC                                    | Crosses | Buy* |
|-------------------------------------------------------------------------------------|----------------------------------------|---------|------|
|    | <b>A 939</b><br>Very dark navy         | 24      | 1    |
|    | <b>B 930</b><br>Dark antique blue      | 346     | 1    |
|    | <b>C 931</b><br>Medium antique blue    | 1149    | 1    |
|    | <b>D 932</b><br>Light antique blue     | 139     | 1    |
|    | <b>E 3808</b><br>Very dark turquoise   | 247     | 1    |
|    | <b>H 522</b><br>Fern green             | 405     | 1    |
|    | <b>J 524</b><br>Very light fern green  | 232     | 1    |
|  | <b>M 977</b><br>Light golden brown     | 9       | 1    |
|  | <b>N 3776</b><br>Light mahogany        | 28      | 1    |
|  | <b>R 758</b><br>Very light terra cotta | 8       | 1    |
|  | <b>T 3799</b><br>Very dark pewter gray | 414     | 1    |
|  | <b>V 310</b><br>Black                  | 124     | 1    |

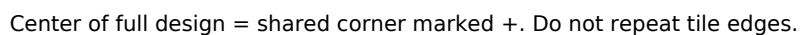
TOTAL: 3,125 full crosses

Blank cells = unstitched base fabric.

\* Buy = estimated 8-meter skeins for this one villain, using two strands. Keep leftover floss for other designs. See page 4 for the allowance method.

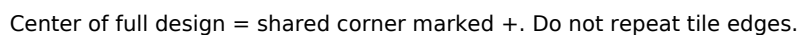
Stitch this villain: locate the center between columns 49/50 and rows 56/57. Work the four charts that follow. Use two strands for every symbol, including dark outlines and winter-white cells. Finish using the steps on page 3.

Tile A: columns 1-49 | rows 1-56 | one symbol = one full cross



Use the floss key on this villain's overview. Empty square = no stitch.

Tile B: columns 50-98 | rows 1-56 | one symbol = one full cross



Use the floss key on this villain's overview. Empty square = no stitch.

# WiFi Gremlin

Tile C: columns 1-49 | rows 57-112 | one symbol = one full cross

|     | 1 | 10 | 20                                | 30                      | 40                | 49                |     |
|-----|---|----|-----------------------------------|-------------------------|-------------------|-------------------|-----|
| 57  |   |    | V E C C C C C C E V               |                         | T B B B B B B     | B C C C C B B B B | 57  |
|     |   |    | B C C C C C C C T                 |                         | B B B B B         | E E C C E E C C C |     |
| 60  |   |    | T C C C C C C C B                 |                         | T B B B B         | B B C C C C C C C | 60  |
|     |   |    | B C C C C C E E T                 |                         | T B B B C         | C C C C C C C C C |     |
|     |   |    | T C C C C C H H H                 | T                       | T T T B C C C     | C C C C C C C C C |     |
|     |   |    | T E C E H H H H H                 | H H H H H E E B E C     | C C C C C C C C C |                   |     |
|     |   |    | T B H H T J J J J J J J J J J H B | C C C C C C C C C       |                   |                   |     |
|     |   |    | T H T H J J J J J J J H H H J J H | E C C C C C C C C       |                   |                   |     |
|     |   |    | T T H J J J J J J J H T H J H     | T C C C C C C C C       |                   |                   |     |
|     |   |    | T H J J J J J J H J J H T H H     | T C C C C C C C C       |                   |                   |     |
|     |   |    | H H J J J J J T H J J H V T       | E C C C C C C C C       |                   |                   |     |
|     |   |    | T H H J J H T H J H T B           | C C C C C C C C C       |                   |                   |     |
| 70  |   |    | T V T H J H V H H T C             | C C C C C C C C C       |                   |                   | 70  |
|     |   |    |                                   | T T H H V B B E B       | E C C C C C C C C |                   |     |
|     |   |    |                                   | V T T T E C C C C       | E E C C C C C C C |                   |     |
|     |   |    |                                   | A B C C C C C           | C E B B C C C C C |                   |     |
|     |   |    |                                   | B E C C C C C           | E E B B B E C C C |                   |     |
|     |   |    |                                   | V B C C C C C C C       | C B B B B B E E B |                   |     |
|     |   |    |                                   | T C C C C C C C C       | C C B B B B E E   |                   |     |
|     |   |    |                                   | B C C C C C C C C       | C C B T V T B T A |                   |     |
|     |   |    |                                   | C C C C C C C C C       | C C E V           | V V               |     |
| 80  |   |    |                                   | T E E C C C C C C C C   | C C T             |                   | 80  |
|     |   |    |                                   | V B C C C C C C C       | C C T             |                   |     |
|     |   |    |                                   | B B C C C C C C C       | C B               |                   |     |
|     |   |    |                                   | V B B C C C C C C C C   | C T               |                   |     |
|     |   |    |                                   | T C C C C C C C C C C   | B                 |                   |     |
|     |   |    |                                   | T B B C C C C C C C C   | T                 |                   |     |
|     |   |    |                                   | T B E E C C C C C C C   | T                 |                   |     |
|     |   |    |                                   | B E B B C C C C C C B T |                   |                   |     |
|     |   |    |                                   | T C C E C B E E E E B V |                   |                   |     |
|     |   |    |                                   | B C C C C C B B B B B   |                   |                   |     |
|     |   |    |                                   | E C C C C C B B B B V   |                   |                   |     |
| 90  |   |    |                                   | T C C C C C C C C C T   |                   |                   | 90  |
|     |   |    |                                   | V C C C C C C C C C B   |                   |                   |     |
|     |   |    |                                   | V C C C C C C C C E T   |                   |                   |     |
|     |   |    |                                   | B B E C E E C E B T     |                   |                   |     |
|     |   |    |                                   | T B B B E E E B V       |                   |                   |     |
|     |   |    |                                   | T E B B B B T T B V     |                   |                   |     |
|     |   |    |                                   | V T T B B B B E T       |                   |                   |     |
|     |   |    |                                   | V B C C C E E B B T     |                   |                   |     |
|     |   |    |                                   | B C C C C C C C H T     |                   |                   |     |
| 100 |   |    |                                   | V E C C C C C C C H T   |                   |                   | 100 |
|     |   |    |                                   | T C C E E C H H C C H T |                   |                   |     |
|     |   |    |                                   | T E C C C B C C C       | D H B C C H H     |                   |     |
|     |   |    |                                   | E C C C B B C C C       | D H B E C C H T   |                   |     |
|     |   |    |                                   | T C C C C T C C C C     | D C E B C C D H   |                   |     |
|     |   |    |                                   | B C C C C T C C C C     | C C E T C C C E   |                   |     |
|     |   |    |                                   | T E C C E T E C C C     | C C B A C C C E   |                   |     |
|     |   |    |                                   | T B C C B V B E C C     | C C B V E C C T   |                   |     |
|     |   |    |                                   | V T B B V B E C C       | C B T V T T V     |                   |     |
|     |   |    |                                   | V T T V                 |                   |                   |     |
| 110 |   |    |                                   |                         |                   |                   | 110 |
| 112 |   |    |                                   |                         |                   |                   | 112 |
|     | 1 | 10 | 20                                | 30                      | 40                | 49                |     |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# WiFi Gremlin

Tile D: columns 50-98 | rows 57-112 | one symbol = one full cross

|     | 50                                            | 60 | 70 | 80 | 90 | 98 |
|-----|-----------------------------------------------|----|----|----|----|----|
| 57  | C E E B E T A B B E B B E E                   |    |    |    |    |    |
| 60  | C C C E B T T T T B E C H T                   |    |    |    |    |    |
|     | C C C C H T V V B C C C C H                   |    |    |    |    |    |
|     | C C C C H H V B E C C C H                     |    |    |    |    |    |
|     | C C C C C H T T T E C C C E                   |    |    |    |    |    |
|     | C C C C C D H T T T E E E E T                 |    |    |    |    |    |
|     | C C C C C C J T H J J J H B T                 |    |    |    |    |    |
|     | C C C C C C H T H J H J J T T                 |    |    |    |    |    |
|     | C C C C C C D T J J H J M H V                 |    |    |    |    |    |
|     | C C C C C C C T H H H J M H                   |    |    |    |    |    |
|     | C C C C C C C T T T J H H T                   |    |    |    |    |    |
|     | C C C C C C D T T J J H H T                   |    |    |    |    |    |
|     | C C C C C C H T J J H H H T                   |    |    |    |    |    |
| 70  | C C C C C C H T H H H H T                     |    |    |    |    |    |
|     | C C C C C C E V T T H H                       |    |    |    |    |    |
|     | C C C C C E E E T T T                         |    |    |    |    |    |
|     | C C C C E B C C T                             |    |    |    |    |    |
|     | C C E B B E E C H T                           |    |    |    |    |    |
|     | B B B A B C C C H T                           |    |    |    |    |    |
|     | B B A B E C C C C H T                         |    |    |    |    |    |
|     | V V B B B C C C C H T                         |    |    |    |    |    |
|     | A B B E C C C C C C H                         |    |    |    |    |    |
|     | B B B B E C C C C C H T                       |    |    |    |    |    |
| 80  | B B B C C C C C C C T                         |    |    |    |    |    |
|     | B B B C C C C C C C H T                       |    |    |    |    |    |
|     | T B B B C C C C C C H T                       |    |    |    |    |    |
|     | V B C C C C C C C C E                         |    |    |    |    |    |
|     | V B B B E C C C C C E                         |    |    |    |    |    |
|     | V B B E C C C C C C T                         |    |    |    |    |    |
|     | T B B B B E C C C E T                         |    |    |    |    |    |
|     | B B B B E B B E E T                           |    |    |    |    |    |
|     | T C C B B B E C E B T                         |    |    |    |    |    |
|     | T C C C C C C C C C T                         |    |    |    |    |    |
| 90  | E C C C C C C C E                             |    |    |    |    |    |
|     | B C C C C C C C B                             |    |    |    |    |    |
|     | T E B C C C E B T                             |    |    |    |    |    |
|     | T E B B E C C E T                             |    |    |    |    |    |
|     | A B B E E B B B T                             |    |    |    |    |    |
|     | T B B B B B B B T                             |    |    |    |    |    |
|     | V B C C B B B B E H T T                       |    |    |    |    |    |
|     | B B T T B B C C C C H H E E C H H T           |    |    |    |    |    |
|     | T C C E E C C C C C C C C C C H H E E D H T   |    |    |    |    |    |
|     | B E C C C C C C C C C C C C C C H H E C H T   |    |    |    |    |    |
| 100 | B B C C C C C C C C C C C C C C C H T C C E   |    |    |    |    |    |
|     | B B B E E B E C E C C C C C C C C C C H C C E |    |    |    |    |    |
|     | V T B E E B B B B E E C C C C C C C T C B V   |    |    |    |    |    |
|     | V V V T B B E E E E C C C C E T B T           |    |    |    |    |    |
|     | V V T B B E C C B T V                         |    |    |    |    |    |
|     | V V V                                         |    |    |    |    |    |
| 110 |                                               |    |    |    |    |    |
| 112 |                                               |    |    |    |    |    |
|     | 50                                            | 60 | 70 | 80 | 90 | 98 |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Benny Buffer

98 x 112 stitches | 7 x 8 inches on 14-count Aida | 12-inch hoop



## FLOSS KEY

| Symbol                                                                              | DMC           | Crosses | Buy* |
|-------------------------------------------------------------------------------------|---------------|---------|------|
|    | <b>A 939</b>  | 578     | 1    |
| Very dark navy                                                                      |               |         |      |
|    | <b>B 930</b>  | 441     | 1    |
| Dark antique blue                                                                   |               |         |      |
|    | <b>C 931</b>  | 1993    | 2    |
| Medium antique blue                                                                 |               |         |      |
|    | <b>D 932</b>  | 233     | 1    |
| Light antique blue                                                                  |               |         |      |
|    | <b>E 3808</b> | 99      | 1    |
| Very dark turquoise                                                                 |               |         |      |
|    | <b>F 3810</b> | 710     | 1    |
| Dark turquoise                                                                      |               |         |      |
|    | <b>H 522</b>  | 230     | 1    |
| Fern green                                                                          |               |         |      |
|  | <b>J 524</b>  | 76      | 1    |
| Very light fern green                                                               |               |         |      |
|  | <b>K 680</b>  | 66      | 1    |
| Dark old gold                                                                       |               |         |      |
|  | <b>L 3820</b> | 49      | 1    |
| Dark straw                                                                          |               |         |      |
|  | <b>T 3799</b> | 250     | 1    |
| Very dark pewter gray                                                               |               |         |      |
|  | <b>V 310</b>  | 12      | 1    |
| Black                                                                               |               |         |      |

TOTAL: 4,737 full crosses

Blank cells = unstitched base fabric.

\* Buy = estimated 8-meter skeins for this one villain, using two strands. Keep leftover floss for other designs. See page 4 for the allowance method.

Stitch this villain: locate the center between columns 49/50 and rows 56/57. Work the four charts that follow. Use two strands for every symbol, including dark outlines and winter-white cells. Finish using the steps on page 3.

# Benny Buffer

Tile A: columns 1-49 | rows 1-56 | one symbol = one full cross

|    | 1 | 10 | 20 | 30 | 40 | 49 |    |
|----|---|----|----|----|----|----|----|
| 1  |   |    |    |    |    |    | 1  |
| 10 |   |    |    |    |    |    | 10 |
| 20 |   |    |    |    |    |    | 20 |
| 30 |   |    |    |    |    |    | 30 |
| 40 |   |    |    |    |    |    | 40 |
| 50 |   |    |    |    |    |    | 50 |
| 56 |   |    |    |    |    |    | 56 |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Benny Buffer

Tile B: columns 50-98 | rows 1-56 | one symbol = one full cross

|   | 50 | 60 | 70 | 80 | 90 | 98 |   |
|---|----|----|----|----|----|----|---|
| 1 |    |    |    |    |    |    | 1 |
|   |    |    |    |    |    |    |   |
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Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Benny Buffer

Tile C: columns 1-49 | rows 57-112 | one symbol = one full cross

|     | 1 | 10 | 20                                                                        | 30  | 40 | 49 |  |
|-----|---|----|---------------------------------------------------------------------------|-----|----|----|--|
| 57  |   |    | A C C D D D D B A A A A A B B B H C C C C C C C C C C C B A T F F F F F F | 57  |    |    |  |
|     |   |    | B C D D D D D B A A A A A B F C C C C C C C C C C C C A A F F F F F F F   |     |    |    |  |
| 60  |   |    | A C C D D D D C A A A T F F C C C C C C C C C C C C B A A F F F F F F F   | 60  |    |    |  |
|     |   |    | A C C D D C B C C A A K F C C C C C C C C C C C C A A E F F F F F F F     |     |    |    |  |
|     |   |    | B C C B C D D D C B A A E C C C C C C C C C C C A A A F F F F F F F F     |     |    |    |  |
|     |   |    | A B B B D D D C B B B A A B C C C C C C C C C B A A B F F F F F F F F     |     |    |    |  |
|     |   |    | A A C D D C C C D D D D C B A C C C C C C C C C A A A E F F F F F F F F   |     |    |    |  |
|     |   |    | B C C C C D D D D D D D D C A C C C C C C C C C A B B A F F F F F F F F   |     |    |    |  |
|     |   |    | A B C C C C D D D D D D C C D C A B C C C B A B A B F F F F F F F F F     |     |    |    |  |
|     |   |    | A A A C D D D D D D D C B C C B A B C A A A A E F F F F F F F F F         |     |    |    |  |
|     |   |    | A B C D D D D D D D D D B C B A A A A A T F F F F F F F F F F             |     |    |    |  |
|     |   |    | A B C C D D D B C D B B A A E F F F F F F F F F F                         |     |    |    |  |
| 70  |   |    | A B C C D D C B C C A A A E F F F F F F F F F                             | 70  |    |    |  |
|     |   |    | A A B D D A C B A A A B E F F F F F F F F                                 |     |    |    |  |
|     |   |    | A C C A A A A A T B A A A A B B E E F F                                   |     |    |    |  |
|     |   |    | A B B A A A A A A A A A                                                   |     |    |    |  |
|     |   |    | T H C C B A A A A A A A A                                                 |     |    |    |  |
|     |   |    | T H C C C C B A A A T                                                     |     |    |    |  |
|     |   |    | K F C D D C C C B B T                                                     |     |    |    |  |
|     |   |    | T K C C C C C C C C F T                                                   |     |    |    |  |
|     |   |    | T L C C C C C C C C H A                                                   |     |    |    |  |
|     |   |    | T H C C C C C C C C H                                                     |     |    |    |  |
|     |   |    | T F C C C C C C C C H T                                                   |     |    |    |  |
|     |   |    | T E C C C C C C C C H T                                                   |     |    |    |  |
| 80  |   |    | A H B C C C C C C C T                                                     | 80  |    |    |  |
|     |   |    | T H C C B B B B B B A                                                     |     |    |    |  |
|     |   |    | T L C C C C C C C C F T                                                   |     |    |    |  |
|     |   |    | T H C C C C C C C C D T                                                   |     |    |    |  |
|     |   |    | K E C C C C C C C C D T                                                   |     |    |    |  |
|     |   |    | T L C C C C C C C C C H T                                                 |     |    |    |  |
|     |   |    | T H C C C C C C C C C H T                                                 |     |    |    |  |
|     |   |    | T H C C C C C C C C C H T                                                 |     |    |    |  |
|     |   |    | K F C C C C C C C C C E                                                   |     |    |    |  |
|     |   |    | K C C C C C C C C C D T                                                   |     |    |    |  |
| 90  |   |    | K C C C D D D C C C F A                                                   | 90  |    |    |  |
|     |   |    | K C C C D D D D C C B                                                     |     |    |    |  |
|     |   |    | V H B C C C D D D C C C A                                                 |     |    |    |  |
|     |   |    | T H H E B B B B C C B A                                                   |     |    |    |  |
|     |   |    | K H C C D D D C B B A                                                     |     |    |    |  |
|     |   |    | V T B B C C D D D C C E A                                                 |     |    |    |  |
|     |   |    | T T H H H E B B B C D D C F A                                             |     |    |    |  |
|     |   |    | T L L L L J D D D C B C C D T                                             |     |    |    |  |
|     |   |    | T H L L J J D D D D C C B C C C H                                         |     |    |    |  |
|     |   |    | H L D D D C C C C C C C C C C H                                           |     |    |    |  |
| 100 |   |    | T L C C C C C C C C C C B C C H                                           | 100 |    |    |  |
|     |   |    | H H C C C C C C C C C C C B B C T                                         |     |    |    |  |
|     |   |    | K C C C C C C C C C C C C B B B T A                                       |     |    |    |  |
|     |   |    | V H C C C C C C C C C C C B B E T A                                       |     |    |    |  |
|     |   |    | T T A B C C C C C C C C C C B A A A A                                     |     |    |    |  |
|     |   |    | T H T T T B B B B B B B C B C B A A                                       |     |    |    |  |
|     |   |    | A A A E F F E B B B B C C B A A                                           |     |    |    |  |
|     |   |    | A A A A A A A A B A A A A A                                               |     |    |    |  |
|     |   |    | A A A A A A                                                               |     |    |    |  |
| 110 |   |    |                                                                           | 110 |    |    |  |
| 112 |   |    |                                                                           | 112 |    |    |  |
|     | 1 | 10 | 20                                                                        | 30  | 40 | 49 |  |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Benny Buffer

Tile D: columns 50-98 | rows 57-112 | one symbol = one full cross

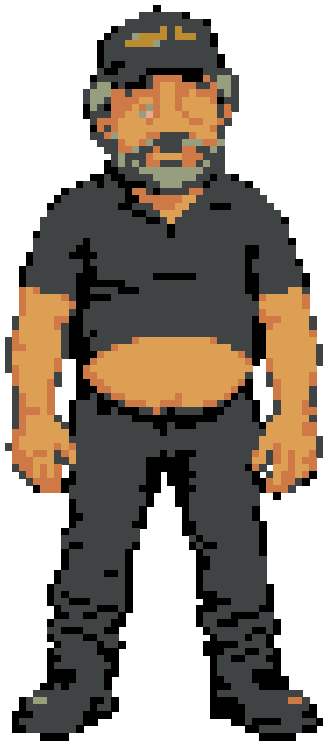
|    | 50 | 60 | 70 | 80 | 90 | 98 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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| 57 | J  | J  | H  | A  | H  | D  | C | C | C | C | H | T | A | E | F | F | F | F | F | F | J | T |  |  |  |  | A | A | B | C | C | D | C | H | A |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Cable Guy

98 x 112 stitches | 7 x 8 inches on 14-count Aida | 12-inch hoop



## FLOSS KEY

| Symbol                                                                            | DMC                                    | Crosses | Buy* |
|-----------------------------------------------------------------------------------|----------------------------------------|---------|------|
|  | <b>H 522</b><br>Fern green             | 49      | 1    |
|  | <b>K 680</b><br>Dark old gold          | 13      | 1    |
|  | <b>M 977</b><br>Light golden brown     | 496     | 1    |
|  | <b>N 3776</b><br>Light mahogany        | 218     | 1    |
|  | <b>R 758</b><br>Very light terra cotta | 1       | 1    |
|  | <b>T 3799</b><br>Very dark pewter gray | 1631    | 2    |
|  | <b>V 310</b><br>Black                  | 512     | 1    |

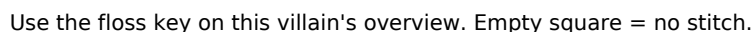
TOTAL: 2,920 full crosses

Blank cells = unstitched base fabric.

\* Buy = estimated 8-meter skeins for this one villain, using two strands. Keep leftover floss for other designs. See page 4 for the allowance method.

Stitch this villain: locate the center between columns 49/50 and rows 56/57. Work the four charts that follow. Use two strands for every symbol, including dark outlines and winter-white cells. Finish using the steps on page 3.

Tile A: columns 1-49 | rows 1-56 | one symbol = one full cross



# Cable Guy

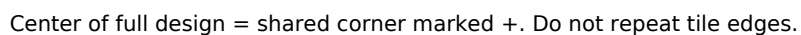
Tile B: columns 50-98 | rows 1-56 | one symbol = one full cross

|    | 50 | 60 | 70 | 80 | 90 | 98 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  |    |    |    |    |    |    | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | V  |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | T  | T  | T  | V  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | K  | T  | T  | T  | T  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | K  | K  | K  | T  | T  | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 | T  | T  | T  | T  | T  | T  | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | T  | T  | T  | T  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | T  | T  | T  | T  | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | V  | V  | V  | V  | V  | T  | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | N  | N  | V  | V  | V  | N  | T | H | H | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | N  | N  | N  | T  | T  | N | H | H | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | N  | N  | M  | N  | N  | T | H | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | N  | M  | M  | M  | N  | V | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | N  | M  | M  | M  | M  | T | N | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 | M  | M  | N  | M  | M  | M  | T | N |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | N  | N  | M  | N | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | T  | N  | M  | M  | M | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | H  | H  | H  | N  | N | H |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | N  | N  | T  | T  | H | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | N  | N  | N  | T  | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | N  | N  | T  | H  | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | H  | H  | H  | H  | H  | T  | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | H  | H  | H  | H  | T  | T  | V | T | T | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 30 | H  | H  | T  | T  | T  | V  | T | T | T | T | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | T  | N  | N  | T  | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T | T |

Center of full design = shared corner marked +. Do not repeat tile edges.

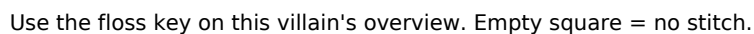
Use the floss key on this villain's overview. Empty square = no stitch.

Tile C: columns 1-49 | rows 57-112 | one symbol = one full cross



Use the floss key on this villain's overview. Empty square = no stitch.

Tile D: columns 50-98 | rows 57-112 | one symbol = one full cross



# Promo Peat

98 x 112 stitches | 7 x 8 inches on 14-count Aida | 12-inch hoop



## FLOSS KEY

| Symbol                                                                              | DMC                                    | Crosses | Buy* |
|-------------------------------------------------------------------------------------|----------------------------------------|---------|------|
|    | <b>A 939</b><br>Very dark navy         | 412     | 1    |
|    | <b>B 930</b><br>Dark antique blue      | 57      | 1    |
|    | <b>E 3808</b><br>Very dark turquoise   | 166     | 1    |
|    | <b>F 3810</b><br>Dark turquoise        | 83      | 1    |
|    | <b>H 522</b><br>Fern green             | 156     | 1    |
|    | <b>J 524</b><br>Very light fern green  | 82      | 1    |
|    | <b>K 680</b><br>Dark old gold          | 46      | 1    |
|  | <b>M 977</b><br>Light golden brown     | 262     | 1    |
|  | <b>N 3776</b><br>Light mahogany        | 1071    | 1    |
|  | <b>R 758</b><br>Very light terra cotta | 49      | 1    |
|  | <b>T 3799</b><br>Very dark pewter gray | 532     | 1    |
|  | <b>V 310</b><br>Black                  | 287     | 1    |

TOTAL: 3,203 full crosses

Blank cells = unstitched base fabric.

\* Buy = estimated 8-meter skeins for this one villain, using two strands. Keep leftover floss for other designs. See page 4 for the allowance method.

Stitch this villain: locate the center between columns 49/50 and rows 56/57. Work the four charts that follow. Use two strands for every symbol, including dark outlines and winter-white cells. Finish using the steps on page 3.

# Promo Peat

Tile A: columns 1-49 | rows 1-56 | one symbol = one full cross

|    | 1 | 10 | 20 | 30 | 40 | 49                                                          |    |
|----|---|----|----|----|----|-------------------------------------------------------------|----|
| 1  |   |    |    |    |    |                                                             | 1  |
|    |   |    |    |    |    | V T N                                                       |    |
|    |   |    |    |    |    | V N N N                                                     |    |
|    |   |    |    |    |    | T T T T                                                     |    |
|    |   |    |    |    |    | T T T H H                                                   |    |
| 10 |   |    |    |    |    | N N T M M M                                                 | 10 |
|    |   |    |    |    |    | T N N M M M T                                               |    |
|    |   |    |    |    |    | T N N M M M M                                               |    |
|    |   |    |    |    |    | T T T N M R T M                                             |    |
|    |   |    |    |    |    | T R M T M M R T M                                           |    |
|    |   |    |    |    |    | T M M M M M M M M                                           |    |
|    |   |    |    |    |    | T M M M M M M M M                                           |    |
|    |   |    |    |    |    | R M M M M M M M M                                           |    |
| 20 |   |    |    |    |    | R M M M M M M                                               | 20 |
|    |   |    |    |    |    | T M M M M M M M M                                           |    |
|    |   |    |    |    |    | T M M M M M M M M                                           |    |
|    |   |    |    |    |    | T T M M M M M M M                                           |    |
|    |   |    |    |    |    | T T T M T M M M M M                                         |    |
|    |   |    |    |    |    | T T T T M M M M T T N                                       |    |
|    |   |    |    |    |    | T E T N N E F T V A T K K K M                               |    |
|    |   |    |    |    |    | T B B T E N N H H V V V T K K K K                           |    |
| 30 |   |    |    |    |    | E V V A T K K K K K                                         | 30 |
|    |   |    |    |    |    | T T T R T T H B E H E F E V A A T K K K K                   |    |
|    |   |    |    |    |    | T T E H E E F F E H F F T A A V V K K K T                   |    |
|    |   |    |    |    |    | T E F E E E F E T N F E V A A V V T T V V                   |    |
|    |   |    |    |    |    | T H F F E R T E E N N E T A A V V V V V V V                 |    |
|    |   |    |    |    |    | T T E F E R T B N N T T V A T T T T B T B H                 |    |
|    |   |    |    |    |    | T N N T E E T T E H E E V V T J J H H H B H H               |    |
|    |   |    |    |    |    | T N N H H H N T T E H F B V V E H B E J J H H H             |    |
|    |   |    |    |    |    | T T H F F E T N T H T E E V V V B H T T J H H J J           |    |
|    |   |    |    |    |    | T T R F F F F E T M M N E A V V V T J H H J T H J T         |    |
| 40 |   |    |    |    |    | T N N N E F F E T M M T T E A V V V V H J T B T T T T       | 40 |
|    |   |    |    |    |    | T T T T H H E T M M M M H V A V V V V V V V T J E B H       |    |
|    |   |    |    |    |    | T T T E T T T T H M M M M M T A V V V V V V V A T J J B J   |    |
|    |   |    |    |    |    | T T E E N T T T T M M M M M M T A V V V A A A V T J J B J   |    |
|    |   |    |    |    |    | T F F H H F E T R M M M M M M T A A V V V A A A E J J E J   |    |
|    |   |    |    |    |    | V E E T H F F E T M M M M M M V A A V V A A A H E E E H     |    |
|    |   |    |    |    |    | T H N N T E F E H M M M M M M V A A V V A A A V V V V V     |    |
|    |   |    |    |    |    | T E N R R E E R N M M M M M M H A A A V A A A V V V V V     |    |
|    |   |    |    |    |    | V E T N T E E N T M M M M M N H T A A A V V A A A V V V V T |    |
| 50 |   |    |    |    |    | B B T E E E N V V T H T T V A A A A A V V V A A V V A V A   | 50 |
|    |   |    |    |    |    | T T E H T H T V V T T T V A A A A A A V V V A A A A V T     |    |
|    |   |    |    |    |    | V T T K K T B A E E F V A A A A A A V V V V V A A V A V     |    |
|    |   |    |    |    |    | V T T V E E F A A A A A A A V V V V V V V V V V             |    |
|    |   |    |    |    |    | T T T R E A A A A A A V T V T T T N T T T                   |    |
|    |   |    |    |    |    | T R N N N A A A A A A V T T T T T N T T T                   |    |
|    |   |    |    |    |    | T E E N N T A A A A A A V N N N N N N N T T T               |    |
| 56 |   |    |    |    |    | T F F F T R T A A A A A A V N N N N N N N N N N             | 56 |
|    | 1 | 10 | 20 | 30 | 40 | 49                                                          |    |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Promo Peat

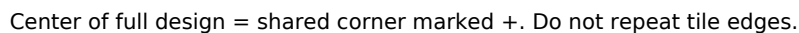
Tile B: columns 50-98 | rows 1-56 | one symbol = one full cross

|    | 50 | 60 | 70 | 80 | 90 | 98 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|----|----|----|----|----|----|----|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1  |    |    |    |    |    |    | 1 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    |    |    |    |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | T  |    |    |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | N  | N  | N  | N  | V  |    |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | N  | N  | N  | N  | N  | T  | T | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | T  | N  | N  | N  | N | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | T  | V  | V  | N  | N  | N | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 10 | M  | M  | N  | T  | V  | V  | N | T | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | N  | N  | V | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | T  | M  | M  | T  | T  | T  | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | N  | M  | M  | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | N  | M  | M  | M  | T | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | M  | M  | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | R  | R  | M  | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | M  | M  | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | M  | M  | N | N |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | M  | N  | N | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 20 | M  | M  | M  | M  | M  | T  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | M  | T  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | M  | T  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | M  | H  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | M  | H  | T  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | N  | N  | N  | H  | T  | T  | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | N  | N  | M  | M  | R  | V  | E | E |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | M  | M  | M  | K  | K  | K  | T | E | E | T | T | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
| 30 | K  | K  | K  | K  | K  | K  | T | E | N | N | H | E | V |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | K  | K  | K  | K  | K  | K  | V | T | H | N | N | T | B | T |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | K  | K  | K  | K  | K  | K  | V | V | E | F | R | T | E | E | N | T |   |   |   |   |   |   |   |   |   |   |   |   |   |
|    | V  | V  | V  | K  | K  | K  | T | V | V | V | E | F | H | F | E | T | T | T |   |   |   |   |   |   |   |   |   |   |   |
|    | V  | V  | V  | V  | V  | T  | T | A | A | V | A | E | E | E | F | E | T | T |   |   |   |   |   |   |   |   |   |   |   |
|    | V  | V  | V  | V  | V  | V  | V | V | A | A | V | B | E | N | E | F | T | T | T |   |   |   |   |   |   |   |   |   |   |
|    | T  | H  | T  | H  | T  | H  | B | B | B | T | T | V | T | H | R | H | T | T | T |   |   |   |   |   |   |   |   |   |   |
|    | H  | J  | J  | J  | H  | H  | H | H | H | E | J | T | V | T | E | R | E | T | T |   |   |   |   |   |   |   |   |   |   |
|    | H  | H  | J  | J  | H  | H  | H | H | H | B | H | B | V | V | E | E | E | B | T | T |   |   |   |   |   |   |   |   |   |
|    | J  | H  | H  | J  | H  | H  | H | H | H | H | E | H | V | V | A | E | B | T | T | T | T |   |   |   |   |   |   |   |   |
|    | H  | E  | B  | H  | T  | J  | J | E | J | H | H | J | V | V | V | B | E | T | T | T | E | B |   |   |   |   |   |   |   |
| 40 | T  | T  | T  | T  | T  | T  | A | T | T | B | H | V | V | A | A | B | E | T | M | M | E | T |   |   |   |   |   |   |   |
|    | H  | E  | J  | T  | T  | T  | J | T | J | H | T | V | V | V | A | A | A | B | E | T | M | M | T | V | V |   |   |   |   |
|    | H  | H  | J  | B  | T  | J  | J | T | J | H | T | V | V | V | A | A | A | A | T | M | M | M | M | H | T |   |   |   |   |
|    | J  | H  | J  | H  | T  | J  | H | J | J | H | B | V | V | A | A | A | A | A | H | M | M | M | M | T | T | V |   |   |   |
|    | E  | H  | J  | B  | T  | J  | J | H | J | H | B | V | A | A | A | A | A | A | A | T | M | M | M | M | T | H | N | T |   |
|    | T  | B  | H  | H  | E  | H  | T | H | J | J | T | V | A | A | A | A | A | A | A | T | M | M | M | M | H | E | H | T |   |
|    | T  | V  | A  | V  | V  | V  | V | T | T | A | V | A | V | A | A | A | A | A | A | T | M | M | M | M | M | T | F | H | T |
|    | V  | A  | V  | A  | A  | T  | V | V | A | A | A | V | V | V | A | A | A | A | V | N | M | M | M | M | T | F | E | T |   |
|    | T  | T  | V  | A  | A  | A  | A | A | A | A | V | A | A | A | A | A | A | A | A | T | M | M | M | M | T | E | H | T |   |
|    | T  | A  | A  | A  | A  | V  | V | A | A | A | V | V | A | A | A | A | A | A | A | V | T | N | M | T | T | H | H | T |   |
| 50 | A  | A  | A  | A  | V  | V  | V | V | A | A | T | A | A | A | A | A | A | A | A | T | T | V | V | V | T | E | T |   |   |
|    | V  | V  | V  | A  | A  | A  | V | A | V | V | A | V | A | A | A | A | A | A | A | T | F | E | V | T | H | T |   |   |   |
|    | V  | V  | A  | V  | V  | V  | V | V | V | T | V | V | A | A | A | A | A | A | A | F | E | T | V | V |   |   |   |   |   |
|    | T  | T  | E  | B  | T  | T  | T | T | N | T | T | V | V | A | A | A | A | A | A | V | E | H | E | T |   |   |   |   |   |
|    | T  | H  | T  | T  | T  | T  | T | T | N | T | T | V | V | A | A | A | A | A | A | V | T | N | N | T |   |   |   |   |   |
|    | T  | H  | T  | T  | T  | T  | T | T | N | N | N | N | V | A | A | A | A | A | A | A | T | R | N | T | T |   |   |   |   |
| 56 | N  | N  | H  | N  | N  | N  | N | N | N | N | N | N | T | A | A | A | A | A | A | A | T | N | T | F | E |   |   |   |   |
|    | 50 | 60 | 70 | 80 | 90 | 98 |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

Tile C: columns 1-49 | rows 57-112 | one symbol = one full cross



Use the floss key on this villain's overview. Empty square = no stitch.

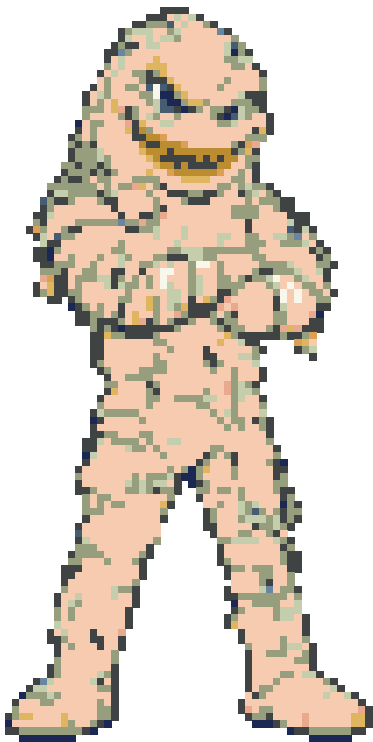
Tile D: columns 50-98 | rows 57-112 | one symbol = one full cross

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Fine Print

98 x 112 stitches | 7 x 8 inches on 14-count Aida | 12-inch hoop



## FLOSS KEY

| Symbol                                                                              | DMC                                    | Crosses | Buy* |
|-------------------------------------------------------------------------------------|----------------------------------------|---------|------|
|    | <b>A 939</b><br>Very dark navy         | 45      | 1    |
|    | <b>B 930</b><br>Dark antique blue      | 13      | 1    |
|    | <b>C 931</b><br>Medium antique blue    | 6       | 1    |
|    | <b>H 522</b><br>Fern green             | 568     | 1    |
|    | <b>J 524</b><br>Very light fern green  | 147     | 1    |
|    | <b>K 680</b><br>Dark old gold          | 34      | 1    |
|    | <b>L 3820</b><br>Dark straw            | 50      | 1    |
|  | <b>M 977</b><br>Light golden brown     | 9       | 1    |
|  | <b>P 754</b><br>Light peach            | 1500    | 2    |
|  | <b>R 758</b><br>Very light terra cotta | 22      | 1    |
|  | <b>S 3865</b><br>Winter white          | 14      | 1    |
|  | <b>T 3799</b><br>Very dark pewter gray | 415     | 1    |

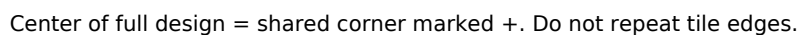
TOTAL: 2,823 full crosses

Blank cells = unstitched base fabric.

\* Buy = estimated 8-meter skeins for this one villain, using two strands. Keep leftover floss for other designs. See page 4 for the allowance method.

Stitch this villain: locate the center between columns 49/50 and rows 56/57. Work the four charts that follow. Use two strands for every symbol, including dark outlines and winter-white cells. Finish using the steps on page 3.

Tile A: columns 1-49 | rows 1-56 | one symbol = one full cross



Use the floss key on this villain's overview. Empty square = no stitch.

# Fine Print

Tile B: columns 50-98 | rows 1-56 | one symbol = one full cross

|    | 50                                      | 60 | 70 | 80 | 90 | 98 |    |
|----|-----------------------------------------|----|----|----|----|----|----|
| 1  |                                         |    |    |    |    |    | 1  |
|    |                                         |    |    |    |    |    |    |
|    | J T                                     |    |    |    |    |    |    |
|    | P P H T                                 |    |    |    |    |    |    |
|    | P P P P C T                             |    |    |    |    |    |    |
|    | P P P P P P H                           |    |    |    |    |    |    |
| 10 | P P P P P J B H                         |    |    |    |    |    | 10 |
|    | P P P P P J A H T                       |    |    |    |    |    |    |
|    | P P P P P H H J J                       |    |    |    |    |    |    |
|    | P P P P P P H H P T                     |    |    |    |    |    |    |
|    | P P P P P P P P P T                     |    |    |    |    |    |    |
|    | P P P P P H P P P P H                   |    |    |    |    |    |    |
|    | P P P P H P P P P P H                   |    |    |    |    |    |    |
|    | P P P P P P J T T T                     |    |    |    |    |    |    |
|    | L L H P P P H H H T T                   |    |    |    |    |    |    |
|    | T H P H H T A J H H T                   |    |    |    |    |    |    |
| 20 | P P P H T A B J H P P T                 |    |    |    |    |    | 20 |
|    | P P P P H H J P P P P T                 |    |    |    |    |    |    |
|    | P P P P P P P P P T L T                 |    |    |    |    |    |    |
|    | P P P P P P P P H H H                   |    |    |    |    |    |    |
|    | P P P P P P H T M R                     |    |    |    |    |    |    |
|    | K K K K K T H L T                       |    |    |    |    |    |    |
|    | T K T K T K K P H H                     |    |    |    |    |    |    |
|    | T T T T K K P P H T                     |    |    |    |    |    |    |
|    | K K K K M P P H P T                     |    |    |    |    |    |    |
|    | L L L P P P H H P T                     |    |    |    |    |    |    |
| 30 | P P P P H H P H J H H T                 |    |    |    |    |    | 30 |
|    | H H T T H P P T H J P H T               |    |    |    |    |    |    |
|    | T T T P P P P P H P H H T T             |    |    |    |    |    |    |
|    | P P P P P P H H H H P P H T T           |    |    |    |    |    |    |
|    | P P P P P P H H H H P P P T T T         |    |    |    |    |    |    |
|    | P P P P P P P P T P P P P J T T         |    |    |    |    |    |    |
|    | P P P P P P P P T P P P P B T J T       |    |    |    |    |    |    |
|    | P P P P J J P P H H P P J J H C P H     |    |    |    |    |    |    |
|    | P P P P J P P P H H H P P H H H J P T   |    |    |    |    |    |    |
| 40 | J J H H H H H H H H P P P P P P T H T   |    |    |    |    |    | 40 |
|    | J J H H P P P P P H H P P P P P P T H   |    |    |    |    |    |    |
|    | H S S P H P P P P P H H H J P P P H H T |    |    |    |    |    |    |
|    | H P P P H P P P P H T T H H H J P P J T |    |    |    |    |    |    |
|    | H J P P H H P H T H H J S P P H J P P T |    |    |    |    |    |    |
|    | H J P P H H H H P P P H J P S P H H P H |    |    |    |    |    |    |
|    | H J P P T T H P P P P H S P S P H H P T |    |    |    |    |    |    |
|    | T P L H T R P P P P P P T S P S P P H H |    |    |    |    |    |    |
|    | T T T T R P R P P P P P T J P P P P T T |    |    |    |    |    |    |
|    | T T T H P H T P P P P P H H P P P R A   |    |    |    |    |    |    |
|    | H P P H T H H P P P P P H H P P P T T   |    |    |    |    |    |    |
| 50 | P P P P H T H H P P P H T R L R T T T   |    |    |    |    |    | 50 |
|    | P P P P P L H T T T T T T H T T H M     |    |    |    |    |    |    |
|    | P P P P L P P J T T T M L P             |    |    |    |    |    |    |
|    | P P T P P P P P P H T T H J             |    |    |    |    |    |    |
|    | P P T T P P P J J H T                   |    |    |    |    |    |    |
|    | P P H T H P P P P J                     |    |    |    |    |    |    |
| 56 | P P H P P H P P P T                     |    |    |    |    |    | 56 |
|    | 50                                      | 60 | 70 | 80 | 90 | 98 |    |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Fine Print

Tile C: columns 1-49 | rows 57-112 | one symbol = one full cross

|    | 1 | 10 | 20 | 30 | 40 | 49 |    |
|----|---|----|----|----|----|----|----|
| 57 |   |    |    |    |    |    | 57 |
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Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Fine Print

Tile D: columns 50-98 | rows 57-112 | one symbol = one full cross

|     | 50                                | 60 | 70 | 80 | 90 | 98  |
|-----|-----------------------------------|----|----|----|----|-----|
| 57  | P P P P P H P P P T               |    |    |    |    | 57  |
|     | P P P P P R H J H T               |    |    |    |    |     |
|     | P P H P P R H J J H               |    |    |    |    |     |
| 60  | H H J J P P H J P P T             |    |    |    |    | 60  |
|     | P H H P P P H P P P H             |    |    |    |    |     |
|     | P P P H P J H P P P J             |    |    |    |    |     |
|     | P P P P H P H H P T H T           |    |    |    |    |     |
|     | P P P P P H P H P P H T           |    |    |    |    |     |
|     | P P P P P P P P P P T             |    |    |    |    |     |
|     | P P P P P P P P P P H             |    |    |    |    |     |
|     | P P P H H P P P P P P T           |    |    |    |    |     |
|     | P P T H P H T P P P P H           |    |    |    |    |     |
|     | P T H P P P T P P P P H T A       |    |    |    |    |     |
| 70  | A H L P P P H P P P P T T         |    |    |    |    | 70  |
|     | A H P P P P H P P P P T H         |    |    |    |    |     |
|     | A T H P P P P P P P P H H         |    |    |    |    |     |
|     | H H P H H P H P P P H T T         |    |    |    |    |     |
|     | T P P P P P H P P P P T H         |    |    |    |    |     |
|     | P P H P P J H J P P P A H T       |    |    |    |    |     |
|     | T H P P P J H B H P H T H H       |    |    |    |    |     |
|     | T H P P P H J J J H J T H T       |    |    |    |    |     |
|     | T T P P P P P T H H J H T         |    |    |    |    |     |
|     | T P P P H H P P H T P             |    |    |    |    |     |
| 80  | H H J J J J P P J H T             |    |    |    |    | 80  |
|     | T P P P P P P P P T H             |    |    |    |    |     |
|     | T P P P P P P P P H T T           |    |    |    |    |     |
|     | T H P P P P P P P H T T           |    |    |    |    |     |
|     | T H H P H H H P P T T             |    |    |    |    |     |
|     | T P P P P H H P P H               |    |    |    |    |     |
|     | P P P P H T P P H                 |    |    |    |    |     |
|     | T P P P P J C P H H T             |    |    |    |    |     |
|     | T T H H H H H H H P H             |    |    |    |    |     |
|     | A P P H H H H P P J               |    |    |    |    |     |
| 90  | T H P P P P H J J J               |    |    |    |    | 90  |
|     | T H P P P P P H J J P T           |    |    |    |    |     |
|     | T L P P P P P P P P T             |    |    |    |    |     |
|     | T P P P P P P P P T               |    |    |    |    |     |
|     | T P P P P P H P P H               |    |    |    |    |     |
|     | H P P P P H J J P T               |    |    |    |    |     |
|     | T P P H H H P P H T               |    |    |    |    |     |
|     | T P P P P P P H H T               |    |    |    |    |     |
|     | T P P P P P P P P T               |    |    |    |    |     |
|     | T P P P P H H P J J T             |    |    |    |    |     |
| 100 | T P P P H P P P P P P H T         |    |    |    |    | 100 |
|     | T P H H P P P P P P P J T         |    |    |    |    |     |
|     | P T H P P P P P P P P J P J T     |    |    |    |    |     |
|     | T P P P P P P P P P P P P P T     |    |    |    |    |     |
|     | T R P H H P P P P P P P P P P R T |    |    |    |    |     |
|     | T H H T P P P P R P P P P P L L T |    |    |    |    |     |
|     | A A A T H P P R P P P P P L L T   |    |    |    |    |     |
|     | A T T H H H H H H T T             |    |    |    |    |     |
|     | A A A A A A                       |    |    |    |    |     |
| 110 |                                   |    |    |    |    | 110 |
| 112 |                                   |    |    |    |    | 112 |
|     | 50                                | 60 | 70 | 80 | 90 | 98  |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Glitchy Ghost

98 x 112 stitches | 7 x 8 inches on 14-count Aida | 12-inch hoop



## FLOSS KEY

| Symbol                                                                              | DMC                                   | Crosses | Buy* |
|-------------------------------------------------------------------------------------|---------------------------------------|---------|------|
|    | <b>A 939</b><br>Very dark navy        | 130     | 1    |
|    | <b>B 930</b><br>Dark antique blue     | 642     | 1    |
|    | <b>C 931</b><br>Medium antique blue   | 748     | 1    |
|    | <b>D 932</b><br>Light antique blue    | 1103    | 1    |
|    | <b>E 3808</b><br>Very dark turquoise  | 100     | 1    |
|    | <b>F 3810</b><br>Dark turquoise       | 374     | 1    |
|    | <b>H 522</b><br>Fern green            | 14      | 1    |
|  | <b>J 524</b><br>Very light fern green | 97      | 1    |
|  | <b>S 3865</b><br>Winter white         | 37      | 1    |
|  | <b>U 415</b><br>Pearl gray            | 503     | 1    |

**TOTAL: 3,748 full crosses**

Blank cells = unstitched base fabric.

\* Buy = estimated 8-meter skeins for this one villain, using two strands. Keep leftover floss for other designs. See page 4 for the allowance method.

Stitch this villain: locate the center between columns 49/50 and rows 56/57. Work the four charts that follow. Use two strands for every symbol, including dark outlines and winter-white cells. Finish using the steps on page 3.

# Glitchy Ghost

Tile A: columns 1-49 | rows 1-56 | one symbol = one full cross

|    | 1 | 10 | 20 | 30 | 40                                                  | 49      |    |
|----|---|----|----|----|-----------------------------------------------------|---------|----|
| 1  |   |    |    |    |                                                     |         | 1  |
|    |   |    |    |    |                                                     | B B B B |    |
|    |   |    |    |    | C D D D D D F B                                     |         |    |
|    |   |    |    |    | B C B B C D D D D U                                 |         |    |
|    |   |    |    |    | B F C C C F C C D D U D                             |         |    |
|    |   |    |    |    | B C F D D D D D D C D U                             |         |    |
|    |   |    |    |    | F F U D D D D D D C D                               |         |    |
| 10 |   |    |    |    | B F U D D D D D D D C                               |         | 10 |
|    |   |    |    |    | E D U D D D D D D D D                               |         |    |
|    |   |    |    |    | B F D D D D D D D D D                               |         |    |
|    |   |    |    |    | B D D D D D D U U U D B B B                         |         |    |
|    |   |    |    |    | B D D D D U U U U D B A A D                         |         |    |
|    |   |    |    |    | A C U C D D D D D D B B B A C                       |         |    |
|    |   |    |    |    | A F U C D C B A A C U D D F D                       |         |    |
|    |   |    |    |    | B D U B D C C C A A D U U U U                       |         |    |
|    |   |    |    |    | C D D B C B J U B B D U U U D                       |         |    |
| 20 |   |    |    |    | D D C B B D U S U D D U U D C                       |         | 20 |
|    |   |    |    |    | E D D D C B C D D U U D D D B D                     |         |    |
|    |   |    |    |    | D D D D B B D U D D D D B C U                       |         |    |
|    |   |    |    |    | B D D D D C B C D D D D C C D U                     |         |    |
|    |   |    |    |    | B F C D D D C F B C D U U U D U D                   |         |    |
|    |   |    |    |    | B U F C D D D C C F B B B C D D D B                 |         |    |
|    |   |    |    |    | E D D C D D D F C D F B B A A A B B C               |         |    |
|    |   |    |    |    | B E D D D D F C D F B C B A A F F D                 |         |    |
|    |   |    |    |    | B J D D D U D B D C B B C A A D D U                 |         |    |
|    |   |    |    |    | C D B D D U D A C F F D E B D U U U                 |         |    |
| 30 |   |    |    |    | B F E B D D D C C F D D D D U U U U                 |         | 30 |
|    |   |    |    |    | A B E D D E C C D D D D U U U D D                   |         |    |
|    |   |    |    |    | A E D C C F D D U F D U D D D D                     |         |    |
|    |   |    |    |    | C D F C C F D D U F D U D D D U                     |         |    |
|    |   |    |    |    | B D U U F C B F F U U F D U U D U U                 |         |    |
|    |   |    |    |    | E D S U U F C B E F U U F D D U D U D               |         |    |
|    |   |    |    |    | C D U S U D C C B B D U D F D U U U F               |         |    |
|    |   |    |    |    | B D D D U U D F C C B A D U D F F D D U D C         |         |    |
|    |   |    |    |    | B U U D D D D F C C B A B B D F F D F D F C         |         |    |
|    |   |    |    |    | E U D D D C C F F C B B F A D C C D D D F C         |         |    |
| 40 |   |    |    |    | B F U U D C C B D C B B F D A C F C D D D F C C     |         | 40 |
|    |   |    |    |    | B F D D U D C B C B B D C B B F C U D D F C F       |         |    |
|    |   |    |    |    | D F F F D U D B B B D F B B F C U D F C C F         |         |    |
|    |   |    |    |    | D D B F U U U D B B J F B C F F U D F C C D         |         |    |
|    |   |    |    |    | D J B B U U U D B C C A F C D U D F C D D           |         |    |
|    |   |    |    |    | B D E J B D U U U D E B B C C F F D U D C C D D     |         |    |
|    |   |    |    |    | B U B J J D D D D D B B C D C C C U U F C B U D     |         |    |
|    |   |    |    |    | B U U C D D D B D U U D B C U D C B F U D F B E U U |         |    |
|    |   |    |    |    | B D D B D D B B B D U U D D C B D U D F B C U U     |         |    |
|    |   |    |    |    | E F E J U D B F C B C U U U C C C B D D D C B F U U |         |    |
| 50 |   |    |    |    | D C A J J F B F C B C D B C C C F U U D C B F U U   |         | 50 |
|    |   |    |    |    | D C A J F F B D C B A A C C D U U F C C F U J       |         |    |
|    |   |    |    |    | E D B B F F F F F B B C F C D U U F C C D D D       |         |    |
|    |   |    |    |    | D C B F B F F C F C B B C D F F U U U D C C D U D   |         |    |
|    |   |    |    |    | A B C C D C J C C C C B E F F C D U U U F C F D U D |         |    |
|    |   |    |    |    | B E J J F D F C C B B B F D C C D U U D F C F D U D |         |    |
| 56 |   |    |    |    | C E J C B D J C B E F D C C U U U D C C D D U U     |         | 56 |
|    | 1 | 10 | 20 | 30 | 40                                                  | 49      |    |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Glitchy Ghost

Tile B: columns 50-98 | rows 1-56 | one symbol = one full cross

|    | 50                                              | 60 | 70 | 80 | 90 | 98 |    |
|----|-------------------------------------------------|----|----|----|----|----|----|
| 1  |                                                 |    |    |    |    |    | 1  |
|    |                                                 |    |    |    |    |    |    |
|    | B                                               |    |    |    |    |    |    |
|    | D C                                             |    |    |    |    |    |    |
|    | D D D B                                         |    |    |    |    |    |    |
|    | D F D D                                         |    |    |    |    |    |    |
| 10 | D D F D C                                       |    |    |    |    |    | 10 |
|    | C D D C D B                                     |    |    |    |    |    |    |
|    | D D D D C C                                     |    |    |    |    |    |    |
|    | D D D D F C B                                   |    |    |    |    |    |    |
|    | B C F D D C C                                   |    |    |    |    |    |    |
|    | H D F D D D C B                                 |    |    |    |    |    |    |
|    | D D D D D D D C                                 |    |    |    |    |    |    |
|    | D D D D D D D E                                 |    |    |    |    |    |    |
|    | U D D D D D F D D B                             |    |    |    |    |    |    |
|    | C D D D D F F C D D                             |    |    |    |    |    |    |
| 20 | D U D A D D D C D U E                           |    |    |    |    |    | 20 |
|    | U U C A D U D F C D U B                         |    |    |    |    |    |    |
|    | U D A B D U D F B D U D                         |    |    |    |    |    |    |
|    | D B A C F D D F B C C D                         |    |    |    |    |    |    |
|    | B A B C F D D D C B F A                         |    |    |    |    |    |    |
|    | C B C F D D D D F B B B                         |    |    |    |    |    |    |
|    | D C C F D D D D C B B B                         |    |    |    |    |    |    |
|    | U C B C D B D D D B B B                         |    |    |    |    |    |    |
|    | U D B B B B B F A D U B                         |    |    |    |    |    |    |
|    | U D C F F D E B A F U D B                       |    |    |    |    |    |    |
| 30 | U D C D U U F C B A D D C B                     |    |    |    |    |    | 30 |
|    | D U F U U U C F D F E H B B                     |    |    |    |    |    |    |
|    | U D C U U D C C D U D E                         |    |    |    |    |    |    |
|    | D F C U U D C C D U U U B                       |    |    |    |    |    |    |
|    | F C C U U D C C D U U U E                       |    |    |    |    |    |    |
|    | C F D U U F C C C D U U U D B                   |    |    |    |    |    |    |
|    | C D D U D C B B C D U U U D D U B               |    |    |    |    |    |    |
|    | F D D U D C B A B C D D U D D U U C             |    |    |    |    |    |    |
|    | D D D D D F C A B A C D U U D D D D B           |    |    |    |    |    |    |
|    | D D A C U D B B B E D D U B D D U U B           |    |    |    |    |    |    |
| 40 | D C A E U D B B B B B D F C C D U U D B         |    |    |    |    |    | 40 |
|    | D B B E U U C B B B B B E D U D D C B           |    |    |    |    |    |    |
|    | F B F C U U F B B B B D U U D C C C             |    |    |    |    |    |    |
|    | C C F C C J D C B B B D U U U D B C D           |    |    |    |    |    |    |
|    | B C D D B C C F B B D U U U U D B C D B         |    |    |    |    |    |    |
|    | B C D D B B B F A B D U U U U D B D D C         |    |    |    |    |    |    |
|    | B C D D D B B F B D U U U U D J H B D C J       |    |    |    |    |    |    |
|    | C B B D D U D C B B D D D D U U D C E U D B D B |    |    |    |    |    |    |
|    | C C D D D U U D C D U U D C U U D C E J D C B C |    |    |    |    |    |    |
|    | C C C D D D U U U U U D B A C U D U J F C D B D |    |    |    |    |    |    |
| 50 | F C C B D D D U D B B B B D D C H F C C B C B   |    |    |    |    |    | 50 |
|    | D C C B C A A B B B C C U E E F F D D D B       |    |    |    |    |    |    |
|    | D C D C F F B A A B C C J U D A C U F C C B     |    |    |    |    |    |    |
|    | D C F D F D F B B B C C D F C E C D F F C B     |    |    |    |    |    |    |
|    | D F C D D D D C C B C E C B B J B F E C F B     |    |    |    |    |    |    |
|    | J F C D D D D F C C B B B J S B C B D J B       |    |    |    |    |    |    |
| 56 | U F C C D D D D C F B B F C J S C C B D F B A   |    |    |    |    |    | 56 |
|    | 50                                              | 60 | 70 | 80 | 90 | 98 |    |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Glitchy Ghost

Tile C: columns 1-49 | rows 57-112 | one symbol = one full cross

|     | 1 | 10 | 20 | 30 | 40 | 49 |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |
|-----|---|----|----|----|----|----|---|---|---|---|---|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|----|---|---|---|---|---|---|---|---|---|---|---|
| 57  |   |    |    | B  | B  | E  | U | D | C | C |   |  |  | F | D | F | C | C | U | U | U | F | F | C | D | D | U | U |   | 57 |    |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    | B  | B  | J | F | B | C |   |  |  | B | F | D | C | C | C | F | D | D | F | F | F | D | D | U | U |    |    |   |   |   |   |   |   |   |   |   |   |   |
| 60  |   |    |    |    | B  | B  | B | D | C | B | C |  |  |   | C | D | D | C | B | D | D | F | D | D | F | D | D | U | U |    | 60 |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    | B  | B  |   | U | F | B | C |  |  |   | D | D | F | C | B | U | D | B | J | D | F | C | C | C | D | U  |    |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    | B  |    | C | F | E |   | C |  |  | E | D | D | C | C | F | U | D | E | S | D | F | B | A | B | U | U  |    |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    | B  | B |   |   | E |   |  |  | C | U | D | C | C | D | U | D | F | S | C | F | C | A | C | U | U  |    |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    | B  | F |   |   | B |   |  |  | D | U | D | C | C | U | U | D | D | U | C | F | C | C | C | U | U  |    |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    | A  | B |   |   | A |   |  |  | B | D | D | F | B | F | U | U | D | D | D | C | F | C | C | C | U  | S  |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    | A  | A |   |   |   |   |  |  | E | U | D | C | B | D | U | U | D | S | D | C | F | C | C | B | U  | J  |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | D | U | F | B | C | D | U | S | D | S | F | C | C | C | C | B | D  | D  |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | C | U | D | C | B | C | U | C | E | D | S | F | F | C | C | C | B  | D  | D |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | D | U | F | B | B | D | U | D | C | U | J | C | C | C | C | C | B  | D  | D |   |   |   |   |   |   |   |   |   |   |
| 70  |   |    |    |    |    |    |   |   |   |   |   |  |  | C | U | D | F | B | D | U | U | D | J | D | C | C | C | C | C | B  | D  | D |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | A | D | D | F | C | B | F | D | D | U | C | S | D | C | C | C | C  | B  | D | D |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | B | U | B | F | B | F | D | D | D | D | C | S | C | C | C | C | C  | C  | B | D |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | E | E | E | F | B | D | D | D | U | D | B | C | C | D | C | C | C  | F  | C | B | D |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | B | C | B | D | C | F | S | D | D | U | C | C | B | C | D | C | C  | F  | F | C | J |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | B | J | C | B | C | D | J | C | D | C | C | C | B | D | D | D | B  | C  | C | F | B | U |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | B | C |   | B | C | D | B | J | D | C | C | C | C | D | D | B | C  | C  | C | D | B | F |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | B | A |   | B | F | D | B | S | F | C | C | C | C | D | D | E | C  | C  | F | J | B | D |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | B | B |   | A | D | J | B | D | C | F | C | C | C | C | U | U | C  | C  | F | D | E | F |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  | B |   |   | B | D | D | E | D | C | F | C | C | C | U | C | C | C  | D  | S | F | C |   |   |   |   |   |   |   |   |
| 80  |   |    |    |    |    |    |   |   |   |   |   |  |  | A |   |   | C | D | B | B | F | F | F | C | C | C | U | C | C | C  | D  | S | F | E |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | B | E | J | B | C | F | C | C | C | U | U | U | J | C | C | D  | D  | D | B |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | B | C |   | C | F | A | J | F | B | C | C | C | D | D | J | B  | C  | C | D | D | B |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | C | C | B | B | B | S | F | F | B | B | F | C | D | J | B | C  | F  | D | D | B |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | B | F | C | B | B | C | J | B | D | B | C | J | F | B | F | J  | C  | F | D | D | B | B |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | F | F | B | B | B | D | J | U | F | C | F | D | F | C | U | J  | C  | F | D | F | B | B |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | E | F | C | B | B | E | J | J | U | B | C | D | U | F | H | S  | D  | D | C | D | C |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | B | F | F | B | B | D | H | B | F | B | C | F | D | C | D | J  | B  | J | C | D | D | F |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | C | C | E |   | B | C | D | J | D | B | C | C | D | D | B | D  | B  | J | C | D | D | F |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   | B | B | A |   | B | F | J | H | D | B | B | D | D | B | D | U  | S  | D | C | D | J | U | F |   |   |   |   |   |
| 90  |   |    |    |    |    |    |   |   |   |   |   |  |  |   | A |   |   | C | D | E | E | B | B | D | F | D | B | D | J | H  | F  | E | U | J | J | D |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   | B | D | C | D | B | B | B | C | U | U | F | B | J  | D  | A | F | C | U | C | F | D |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   | D | C | D | B | B | B | D | U | D | C | B | F | D  | H  | B | C | U | J | E | D |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   | B | J | F | B | B | B | C | U | U | D | C | B | C  | D  | J | B | C | U | J | B | D |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   | B | B | B |   | A | B | D | U | U | C | C | B | C  | J  | D | B | F | D | A | J | U |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   | B | B | B |   |   | C | D | U | D | C | C | A | D  | D  | B | F | D | B | J | U |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   | B | B |   |   |   | B | F | U | U | F | F | C | C  | B  | B | D | B | F | D | B | U |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | B | F | D | U | D | D | C | C | C | B | B | B  | C  | D | D | C | J | F |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | B | F | C | D | D | D | D | C | C | C | B | A  | C  | D | C | J | D | F |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | D | D | C | D | D | D | D | C | C | F | B | B  | F  | F | B | D | B | U |   |   |   |   |   |   |
| 100 |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | E | D | B | D | D | D | F | F | E | D | B | B  | D  | C | B | D | C | F |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | F | F | F | B | D | D | D | C | F | D | D | E  | B  | D | E | B | J | F | B |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | F | U | F | B | C | D | D | D | D | C | D | D  | S  | E |   | C | D | B | B | E | D | B |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | A | B | B | B | A | C | D | D | D | D | C | F  | D  | D | J | E | B | C | D |   | B | B | F | B |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | B | C | D | D | D | D | D | C | F | D | B |    |    | B | B | A |   | B | C | A |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | B | D | D | D | D | D | D | C | C | A | A |    |    |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | D | D | D | D | D | D | D | C | C | A | A |    |    |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | A | C | D | F | C | C | C | B | A |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |
|     |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   | A | A | B | A | A | A |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |
| 110 |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |
| 112 |   |    |    |    |    |    |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |
|     | 1 | 10 | 20 | 30 | 40 | 49 |   |   |   |   |   |  |  |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |    |    |   |   |   |   |   |   |   |   |   |   |   |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

Tile D: columns 50-98 | rows 57-112 | one symbol = one full cross

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# Data Cap

98 x 112 stitches | 7 x 8 inches on 14-count Aida | 12-inch hoop



## FLOSS KEY

| Symbol                                                                              | DMC           | Crosses | Buy* |
|-------------------------------------------------------------------------------------|---------------|---------|------|
|    | <b>A 939</b>  | 119     | 1    |
| Very dark navy                                                                      |               |         |      |
|    | <b>B 930</b>  | 315     | 1    |
| Dark antique blue                                                                   |               |         |      |
|    | <b>C 931</b>  | 606     | 1    |
| Medium antique blue                                                                 |               |         |      |
|    | <b>E 3808</b> | 114     | 1    |
| Very dark turquoise                                                                 |               |         |      |
|    | <b>H 522</b>  | 155     | 1    |
| Fern green                                                                          |               |         |      |
|    | <b>K 680</b>  | 163     | 1    |
| Dark old gold                                                                       |               |         |      |
|    | <b>L 3820</b> | 27      | 1    |
| Dark straw                                                                          |               |         |      |
|  | <b>M 977</b>  | 114     | 1    |
| Light golden brown                                                                  |               |         |      |
|  | <b>N 3776</b> | 746     | 1    |
| Light mahogany                                                                      |               |         |      |
|  | <b>T 3799</b> | 547     | 1    |
| Very dark pewter gray                                                               |               |         |      |
|  | <b>U 415</b>  | 38      | 1    |
| Pearl gray                                                                          |               |         |      |
|  | <b>V 310</b>  | 121     | 1    |
| Black                                                                               |               |         |      |

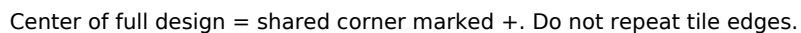
TOTAL: 3,065 full crosses

Blank cells = unstitched base fabric.

\* Buy = estimated 8-meter skeins for this one villain, using two strands. Keep leftover floss for other designs. See page 4 for the allowance method.

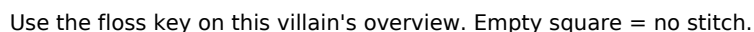
Stitch this villain: locate the center between columns 49/50 and rows 56/57. Work the four charts that follow. Use two strands for every symbol, including dark outlines and winter-white cells. Finish using the steps on page 3.

Tile A: columns 1-49 | rows 1-56 | one symbol = one full cross

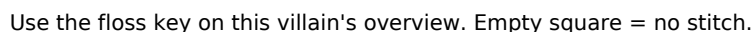


Use the floss key on this villain's overview. Empty square = no stitch.

Tile B: columns 50-98 | rows 1-56 | one symbol = one full cross



Tile C: columns 1-49 | rows 57-112 | one symbol = one full cross



Tile D: columns 50-98 | rows 57-112 | one symbol = one full cross

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

# On Hold Hank

98 x 112 stitches | 7 x 8 inches on 14-count Aida | 12-inch hoop



## FLOSS KEY

| Symbol                                                                              | DMC           | Crosses | Buy* |
|-------------------------------------------------------------------------------------|---------------|---------|------|
|    | <b>A 939</b>  | 787     | 1    |
| Very dark navy                                                                      |               |         |      |
|    | <b>B 930</b>  | 121     | 1    |
| Dark antique blue                                                                   |               |         |      |
|    | <b>C 931</b>  | 524     | 1    |
| Medium antique blue                                                                 |               |         |      |
|    | <b>E 3808</b> | 15      | 1    |
| Very dark turquoise                                                                 |               |         |      |
|    | <b>F 3810</b> | 7       | 1    |
| Dark turquoise                                                                      |               |         |      |
|    | <b>H 522</b>  | 51      | 1    |
| Fern green                                                                          |               |         |      |
|    | <b>K 680</b>  | 66      | 1    |
| Dark old gold                                                                       |               |         |      |
|  | <b>M 977</b>  | 299     | 1    |
| Light golden brown                                                                  |               |         |      |
|  | <b>N 3776</b> | 147     | 1    |
| Light mahogany                                                                      |               |         |      |
|  | <b>P 754</b>  | 13      | 1    |
| Light peach                                                                         |               |         |      |
|  | <b>T 3799</b> | 308     | 1    |
| Very dark pewter gray                                                               |               |         |      |
|  | <b>V 310</b>  | 123     | 1    |
| Black                                                                               |               |         |      |

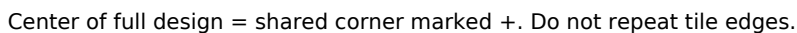
TOTAL: 2,461 full crosses

Blank cells = unstitched base fabric.

\* Buy = estimated 8-meter skeins for this one villain, using two strands. Keep leftover floss for other designs. See page 4 for the allowance method.

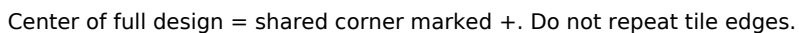
Stitch this villain: locate the center between columns 49/50 and rows 56/57. Work the four charts that follow. Use two strands for every symbol, including dark outlines and winter-white cells. Finish using the steps on page 3.

Tile A: columns 1-49 | rows 1-56 | one symbol = one full cross



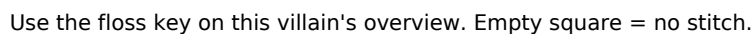
Use the floss key on this villain's overview. Empty square = no stitch.

Tile B: columns 50-98 | rows 1-56 | one symbol = one full cross



Use the floss key on this villain's overview. Empty square = no stitch.

Tile C: columns 1-49 | rows 57-112 | one symbol = one full cross



# On Hold Hank

Tile D: columns 50-98 | rows 57-112 | one symbol = one full cross

|     | 50                | 60 | 70 | 80 | 90 | 98  |
|-----|-------------------|----|----|----|----|-----|
| 57  | C C C C C A       |    |    |    |    | 57  |
|     | C C C C C B       |    |    |    |    |     |
|     | C C C C C B       |    |    |    |    |     |
| 60  | C C C C C C       |    |    |    |    | 60  |
|     | C C C C C C A     |    |    |    |    |     |
|     | C C C C C C A     |    |    |    |    |     |
|     | C C C C C C A     |    |    |    |    |     |
|     | C C C C B A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
| 70  | A A A A A A A     |    |    |    |    | 70  |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A V     |    |    |    |    |     |
| 80  | A A A A A A       |    |    |    |    | 80  |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
| 90  | A A A A A A A     |    |    |    |    | 90  |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A A   |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A A     |    |    |    |    |     |
|     | A A A A A A V     |    |    |    |    |     |
| 100 | A A V T T V V V   |    |    |    |    | 100 |
|     | V V V T T T V V   |    |    |    |    |     |
|     | V V V T T T T T   |    |    |    |    |     |
|     | V V V V T T T T T |    |    |    |    |     |
|     | V V V V T T T T T |    |    |    |    |     |
|     | V V V V T T T T V |    |    |    |    |     |
|     | V V V V T T T T T |    |    |    |    |     |
|     | V V T T T T V V   |    |    |    |    |     |
|     | V                 |    |    |    |    |     |
| 110 |                   |    |    |    |    | 110 |
| 112 |                   |    |    |    |    | 112 |
|     | 50                | 60 | 70 | 80 | 90 | 98  |

Center of full design = shared corner marked +. Do not repeat tile edges.

Use the floss key on this villain's overview. Empty square = no stitch.

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# MERINO CAPS FOR THE CREW

Five original knit-in-the-round designs, with three Dobson-inspired colorways each

## 01 / Fisherman Watch Cap

**PAGE 48**

Short 1x1-rib watch cap

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## 02 / Signal Rib Beanie

**PAGE 50**

Classic 2x2 rib

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## 03 / Broken-Rib Beanie

**PAGE 52**

Textured ribbed weave

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## 04 / Field Texture Beanie

**PAGE 54**

Seed-stitch body

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## 05 / Fiber Stripe Stocking Cap

**PAGE 56**

Long striped stocking cap

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Recommended fiber: 100% merino wool, worsted weight. The two ribbed-weave styles are knitted rib textures: the Signal 2x2 Rib and the Broken-Rib Beanie. The fisherman cap adds a third ribbed option.

These are original, mathematically checked patterns. They have not been sample-knit or fit-tested. Make a washed gauge swatch and check fit as you work; yarn use and final measurements are estimates.

# START WITH 100% MERINO

Use one yarn base and the same weight throughout a hat.

## Recommended yarns

Malabrigo Rios: worsted, 100% superwash merino, 210 yd / 100 g. Knit Picks Swish Worsted: 100% fine superwash merino, 110 yd / 50 g. Select solid or softly tonal colors so the stitch texture reads clearly.

## Tools

Suggested starting sizes: US 6 / 4 mm for cuffs; US 7 / 4.5 mm for bodies and crowns. Use a 16-inch circular plus same-size double-pointed needles or a long circular for magic loop. Also: 8 markers, tapestry needle, scissors and tape measure. Change needle size to meet gauge.

## Adult sizes: S (M, L)

Head circumference: 19.5-21 (21-22.5, 22.5-24) inches. Cast on 88 (96, 104) stitches. Measure the head above the eyebrows and ears. In-between sizes: use the smaller for a snug fit or larger for a looser fit, after checking your swatch stretch.

## Gauge after washing and drying flat

All crowns: 20 stitches and 28 rounds = 4 inches in stockinette. Fisherman 1x1 and Signal 2x2 bodies: 22 stitches = 4 inches in relaxed rib. Broken rib: 20 stitches = 4 inches. Seed stitch: 20 stitches = 4 inches. Stocking body: 20 stitches = 4 inches. Aim for about 28 rounds / 4 inches except seed stitch (about 32); body lengths are measured in inches.

## Finished body circumferences

1x1 and 2x2 rib, relaxed: 16 (17.5, 18.9) inches. Other bodies: 17.6 (19.2, 20.8) inches. Negative ease lets the fabric hug the head. Ribbing should stretch to head size comfortably without becoming see-through; choose the fit using your washed swatch, not cast-on count alone.

## Swatch and care

Swatch at least 6 inches wide in the specified body stitch and in stockinette, using an in-the-round swatch method. Wash as you will wash the hat and dry flat without stretching. Follow the yarn label; a gentle cool hand wash and flat dry are a conservative option. Check colors for bleeding before combining cream with dark yarn.

## Yarn and fit references

[malabrigoyarn.com/yarns/rios](http://malabrigoyarn.com/yarns/rios)

[knitpicks.com/yarn/swish-yarn/c/30015039](http://knitpicks.com/yarn/swish-yarn/c/30015039)

[purlsoho.com/create/how-to-knit-the-right-hat-size-a-complete-guide/](http://purlsoho.com/create/how-to-knit-the-right-hat-size-a-complete-guide/)

Brand palette is inspiration, not a claim of exact commercial shade matches.

Choose actual yarn shades in daylight; superwash merino may relax when washed.

# THE CROWN & FINISH

Use this crown whenever a pattern says Standard Crown or Long Crown.

## Abbreviations

CO = cast on; k = knit; p = purl; st(s) = stitch(es); rnd(s) = round(s); k2tog = knit the next 2 stitches together as one; BOR = beginning of round; MC = main color; CC = contrast cuff color; AC = accent stripe color. \*...\* = repeat the enclosed instructions. All patterns are worked right-side-out in the round.

## Standard Crown - all sizes

Setup rnd: knit all stitches, placing a marker after each group of 11 (12, 13) stitches. You have 8 equal sections; the BOR marker also counts as a section marker. Use the body needle. The crown changes to stockinette even when the body is ribbed or textured.

## Decrease sequence

Decrease rnd: in each section, knit to 2 stitches before its marker, k2tog, slip marker. Decrease 8 stitches in the round. Knit 1 plain rnd. Repeat these 2 rounds until 16 stitches remain, omitting the plain rnd immediately after the decrease to 16. Next rnd: k2tog around = 8 stitches.

## Crown check

Counts after decrease rounds: S 80,72,64,56,48,40,32,24,16; M 88,80,72,64,56,48,40,32,24,16; L 96,88,80,72,64,56,48,40,32,24,16. Final round leaves 8. Including setup and final round: 19 (21, 23) rnds, about 2.7 (3, 3.3) inches at crown gauge.

## Long Crown - stocking cap only

Use the same setup and decrease counts, but knit 3 plain rnds between decrease rnds instead of 1. After the decrease to 16, omit all 3 plain rnds and work the final k2tog rnd. Total: 35 (39, 43) rnds, about 5 (5.6, 6.1) inches.

## Finish every hat

Cut a 12-inch tail, thread through the remaining 8 stitches, remove needles and draw closed. Secure on the inside and weave in ends. Wash gently and dry flat to the intended dimensions without stretching the ribbing. Fold the cuff once by the depth given. Secure any optional pom-pom firmly.

All yardages include a planning allowance for swatching and ends; use is not guaranteed.

Print reference colors normally; knitting gauge is determined by fabric, not PDF scale.

# FISHERMAN WATCH CAP

Short watch-cap silhouette with a deep turned cuff and 1x1 rib

## Size and finished depth

Adult S (M, L); CO 88 (96, 104) sts. Approximate depth with cuff folded: 6.7 (7, 7.3) inches. Size and fit guidance: page 46.

## Yarn allowance - 100% merino worsted

180 (200, 230) yd total. If two colors: allow CC 45 (50, 55) yd and MC 135 (150, 175) yd.

## Gauge

22 sts / 4 inches in relaxed 1x1 rib; crown 20 sts and 28 rnds / 4 inches in stockinette.

## Stitch pattern

1x1 rib: \*k1, p1\* around. Repeat every round.

### 1. Cast on and cuff

With cuff needles and CC, use a stretchy cast-on for 88 (96, 104) sts. Join without twisting; place BOR marker. Work 1x1 rib until the piece measures 2.5 inches from cast-on.

### 2. Body

Change to body needles and MC. Continue 1x1 rib until the TOTAL length from cast-on is 6.5 inches. Keep the fabric relaxed while measuring; do not measure from the color change.

### 3. Crown

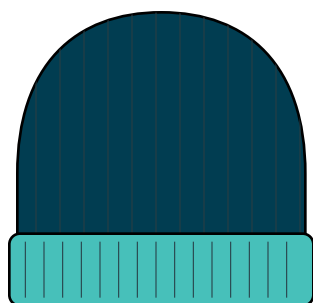
In MC, work the Standard Crown on page 47. Change to DPNs or magic loop when the stitches no longer fit the circular. The smooth crown is an intentional finish to the ribbed body.

### 4. Finish

Close the crown and finish as on page 47. Fold up the bottom 2.5 inches ONCE. This is a short fisherman fit that may sit above the ears. For more coverage, add 0.5-1 inch to the body before the crown and allow extra yarn.

# FISHERMAN WATCH CAP

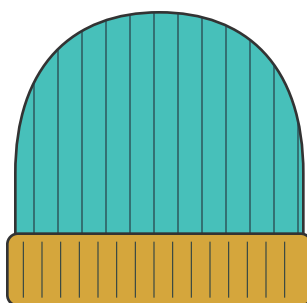
Three Dobson-inspired palettes. Schematic color placement, not a knitted sample.



**Hero Uniform**

**MC: Navy**

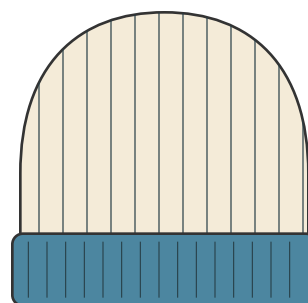
**CC: Teal**



**Gremlin Gold**

**MC: Teal**

**CC: Mustard**



**Field Club Natural**

**MC: Cream**

**CC: Denim**



## Color placement

For this design, CC is the cuff from cast-on to 2.5 inches. Change to MC for the rest of the body and the entire crown. Change color at BOR; do not alter the stitch repeat to hide the join.

## Choose your yarn shades

Use the named color families as shopping targets in one 100% merino worsted yarn base. These palette names are Dobson concepts, not manufacturer shade names. Match actual skeins in daylight. For a single-color version, use the combined total allowance in that one shade.

## Buying yarn

Round each color allowance UP to whole skeins using the label yardage. Example: 135 yd needs 2 balls if each has 110 yd. Leftovers can be shared between hats; allow extra if changing body length, gauge or pom-pom size.

# SIGNAL 2x2 RIB BEANIE

Ribbed-weave pattern 1: wide, classic knit-and-purl columns

## Size and finished depth

Adult S (M, L); CO 88 (96, 104) sts. Approximate depth with cuff folded: 8 (8.3, 8.5) inches. Size and fit guidance: page 46.

## Yarn allowance - 100% merino worsted

210 (230, 260) yd total. CC 45 (50, 55) yd; MC 165 (180, 205) yd.

## Gauge

22 sts / 4 inches in relaxed 2x2 rib; crown 20 sts and 28 rnds / 4 inches in stockinette.

## Stitch pattern

2x2 rib: \*k2, p2\* around. Repeat every round.

### 1. Cast on and cuff

With cuff needles and CC, CO 88 (96, 104) sts. Join without twisting; place BOR marker. Work \*k2, p2\* around until the piece measures 2.25 inches.

### 2. Body

Change to body needles and MC. Continue \*k2, p2\* around until the TOTAL length from cast-on is 7.5 inches. The same columns continue through cuff and body.

### 3. Crown

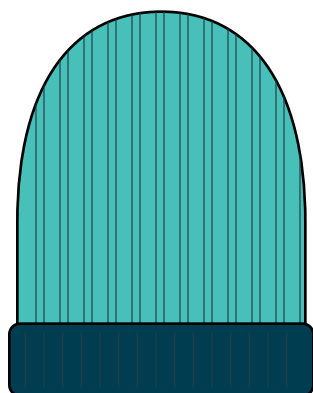
In MC, work the Standard Crown on page 47, using the eight-section setup. Rib columns end here; the crown is stockinette. Do not continue k2/p2 through the decrease instructions.

### 4. Finish

Close the top, weave in ends, wash and dry flat. Fold the bottom 2.25 inches up once. Add or subtract body length before the crown for a taller or closer fit.

# SIGNAL 2x2 RIB BEANIE

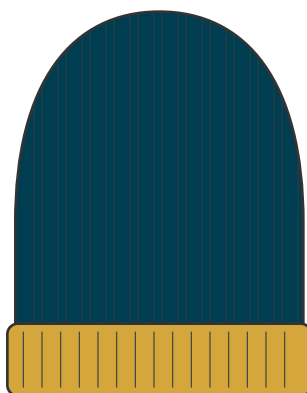
Three Dobson-inspired palettes. Schematic color placement, not a knitted sample.



**Fast Lane**

**MC: Teal**

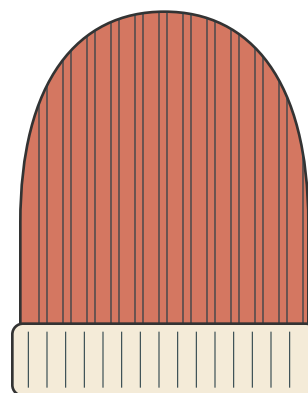
**CC: Navy**



**Prairie Gold**

**MC: Navy**

**CC: Mustard**



**Local Warmth**

**MC: Coral**

**CC: Cream**



## Color placement

For this design, CC is the cuff from cast-on to 2.25 inches. Change to MC for the rest of the body and the entire crown. Change color at BOR; do not alter the stitch repeat to hide the join.

## Choose your yarn shades

Use the named color families as shopping targets in one 100% merino worsted yarn base. These palette names are Dobson concepts, not manufacturer shade names. Match actual skeins in daylight. For a single-color version, use the combined total allowance in that one shade.

## Buying yarn

Round each color allowance UP to whole skeins using the label yardage. Example: 135 yd needs 2 balls if each has 110 yd. Leftovers can be shared between hats; allow extra if changing body length, gauge or pom-pom size.

# BROKEN-RIB BEANIE

Ribbed-weave pattern 2: alternating rib and knit rounds

## Size and finished depth

Adult S (M, L); CO 88 (96, 104) sts. Approximate depth with cuff folded: 8 (8.3, 8.5) inches. Size and fit guidance: page 46.

## Yarn allowance - 100% merino worsted

210 (230, 260) yd total. CC 40 (45, 50) yd; MC 170 (185, 210) yd.

## Gauge

20 sts / 4 inches in relaxed broken rib; crown 20 sts and 28 rnds / 4 inches in stockinette.

## Stitch pattern

Body repeat: Rnd 1: \*k1, p1\* around. Rnd 2: knit all sts. Repeat these 2 rounds.

### 1. Cast on and cuff

With cuff needles and CC, CO 88 (96, 104) sts. Join without twisting; place BOR marker. Work \*k1, p1\* around for 2 inches.

### 2. Textured body

Change to body needles and MC. Begin the 2-round broken-rib repeat above. Continue until the TOTAL length from cast-on is at least 7.25 inches, ending after Rnd 2.

### 3. Crown

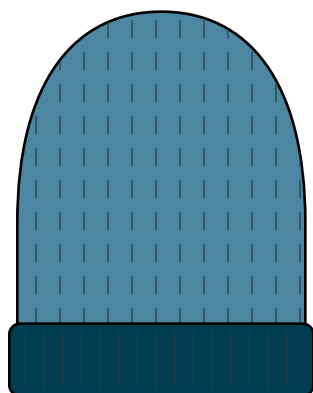
In MC, work the Standard Crown on page 47. Its setup is a separate knit round. The textured repeat stops when you begin the crown.

### 4. Finish

Close the crown, weave in ends and block gently. Turn up a 2-inch cuff once. Keep the broken-rib fabric relaxed when measuring so the texture retains its spring.

# BROKEN-RIB BEANIE

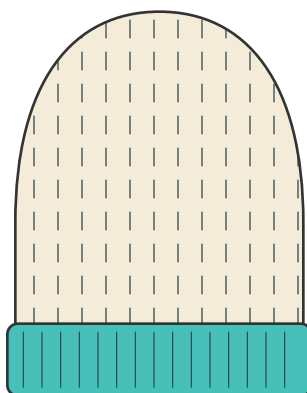
Three Dobson-inspired palettes. Schematic color placement, not a knitted sample.



**Signal Bars**

**MC: Denim**

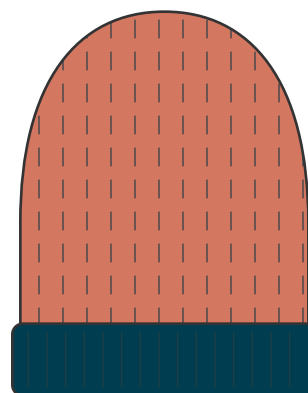
**CC: Navy**



**Paper Trail**

**MC: Cream**

**CC: Teal**



**Copper Wire**

**MC: Coral**

**CC: Navy**



## Color placement

For this design, CC is the cuff from cast-on to 2 inches. Change to MC for the rest of the body and the entire crown. Change color at BOR; do not alter the stitch repeat to hide the join.

## Choose your yarn shades

Use the named color families as shopping targets in one 100% merino worsted yarn base. These palette names are Dobson concepts, not manufacturer shade names. Match actual skeins in daylight. For a single-color version, use the combined total allowance in that one shade.

## Buying yarn

Round each color allowance UP to whole skeins using the label yardage. Example: 135 yd needs 2 balls if each has 110 yd. Leftovers can be shared between hats; allow extra if changing body length, gauge or pom-pom size.

# FIELD TEXTURE BEANIE

Seed-stitch body with a clean 2x2-rib turned cuff

## Size and finished depth

Adult S (M, L); CO 88 (96, 104) sts. Approximate depth with cuff folded: 8.5 (8.8, 9) inches. Size and fit guidance: page 46.

## Yarn allowance - 100% merino worsted

230 (250, 280) yd total. CC 40 (45, 50) yd; MC 190 (205, 230) yd.

## Gauge

20 sts and about 32 rnds / 4 inches in seed stitch; crown 20 sts and 28 rnds / 4 inches in stockinette.

## Stitch pattern

Seed stitch in the round: Rnd 1: \*k1, p1\* around. Rnd 2: \*p1, k1\* around. Repeat these 2 rounds over the even stitch count.

### 1. Cast on and cuff

With cuff needles and CC, CO 88 (96, 104) sts. Join without twisting; place BOR marker. Work \*k2, p2\* around for 1.75 inches.

### 2. Seed-stitch body

Change to body needles and MC. Begin the 2-round seed-stitch repeat. Continue until the TOTAL length from cast-on is at least 7.5 inches, ending after Rnd 2. Knit into purl-looking stitches and purl into knit-looking stitches on each new round.

### 3. Crown

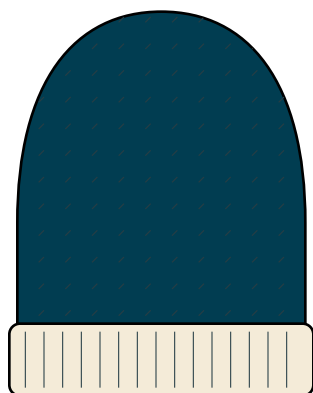
In MC, stop the seed repeat and work the Standard Crown on page 47. The smooth eight-section crown contrasts with the pebbled body.

### 4. Finish

Close the top and weave in ends. Wash and dry flat without flattening the texture. Fold the bottom 1.75 inches up once. This is the tallest of the four regular beanies.

# FIELD TEXTURE BEANIE

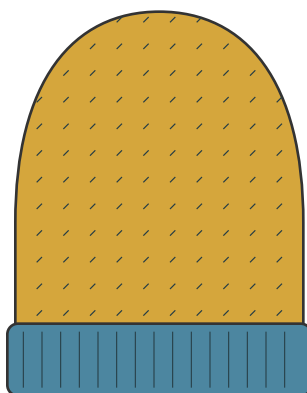
Three Dobson-inspired palettes. Schematic color placement, not a knitted sample.



**Hometown Ink**

**MC: Navy**

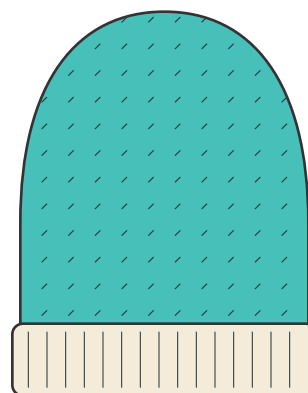
**CC: Cream**



**OKC Sunrise**

**MC: Mustard**

**CC: Denim**



**Quiet Teal**

**MC: Teal**

**CC: Cream**



## Color placement

For this design, CC is the cuff from cast-on to 1.75 inches. Change to MC for the rest of the body and the entire crown. Change color at BOR; do not alter the stitch repeat to hide the join.

## Choose your yarn shades

Use the named color families as shopping targets in one 100% merino worsted yarn base. These palette names are Dobson concepts, not manufacturer shade names. Match actual skeins in daylight. For a single-color version, use the combined total allowance in that one shade.

## Buying yarn

Round each color allowance UP to whole skeins using the label yardage. Example: 135 yd needs 2 balls if each has 110 yd. Leftovers can be shared between hats; allow extra if changing body length, gauge or pom-pom size.

# FIBER STRIPE STOCKING CAP

A taller striped cap with a long tapered crown

## Size and finished depth

Adult S (M, L); CO 88 (96, 104) sts. Approximate depth with cuff folded: 11 (11.6, 12.1) inches. Size and fit guidance: page 46.

## Yarn allowance - 100% merino worsted

300 (330, 370) yd total. MC 200 (225, 255) yd; CC 70 (75, 80) yd; AC 30 (30, 35) yd.

## Gauge

20 sts and 28 rnds / 4 inches in stockinette. The 2x2 cuff uses the smaller needle.

## Stitch pattern

Stockinette in the round: knit every stitch on every round. Stripe repeat: 6 rnds MC, 4 rnds CC, 2 rnds AC.

### 1. Cast on and cuff

With cuff needles and CC, CO 88 (96, 104) sts. Join without twisting; place BOR marker. Work \*k2, p2\* around for 2 inches.

### 2. Striped body

Change to body needles. Begin 6 rnds MC, 4 rnds CC, 2 rnds AC. Repeat until the TOTAL length from cast-on reaches 8 inches, stopping after any complete round. Cut and restart colors, leaving ends to weave in; do not carry unused yarn tightly up the inside.

### 3. Long crown

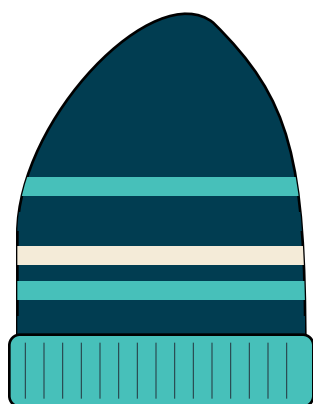
Change to MC and work the Long Crown on page 47: 3 plain rounds between decreases. The crown is solid MC, even if the stripe sequence ended early. Switch needle method as needed.

### 4. Finish

Close the final 8 stitches and finish. Fold the 2-inch cuff once. Optional: add a 2-inch pom-pom using all three colors; reserve an EXTRA 25-35 yd beyond the listed total and secure it firmly.

# FIBER STRIPE STOCKING CAP

Three Dobson-inspired palettes. Schematic color placement, not a knitted sample.

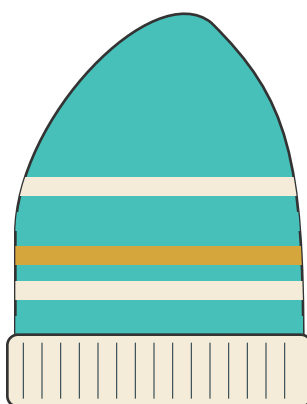


**Fiber Flow**

**MC: Navy**

**CC: Teal**

**AC: Cream**

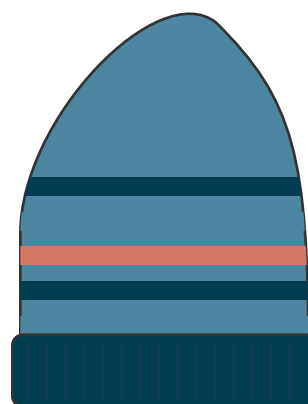
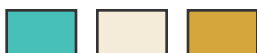


**Warm Connection**

**MC: Teal**

**CC: Cream**

**AC: Mustard**



**Denim After Dark**

**MC: Denim**

**CC: Navy**

**AC: Coral**



## Color placement

For this design, CC is the cuff from cast-on to 2 inches. Work the body stripe repeat exactly as written, then use solid MC for the long crown.

## Choose your yarn shades

Use the named color families as shopping targets in one 100% merino worsted yarn base. These palette names are Dobson concepts, not manufacturer shade names. Match actual skeins in daylight. For a single-color version, use the combined total allowance in that one shade.

## Buying yarn

Round each color allowance UP to whole skeins using the label yardage. Example: 135 yd needs 2 balls if each has 110 yd. Leftovers can be shared between hats; allow extra if changing body length, gauge or pom-pom size.