$>$ Locate a snake (a 1 cell-wide single continuous path) in the grid whose head and tail are given.
$>$ The snake does not touch itself, even diagonally.
$>$ Numbers outside the grid indicate the number of snake cells in that row/column.

## Answer key:




## Snake

Refer to previous page for rules.


## Horse Snake

$2+5$ points
> Apply Standard Snake rules.
> The numbers inside the grid indicate the number of snake parts in the knight step from the clue indicated.
> The clue "?" can be replaced by a number greater than zero.
> The cells with cross cannot be a part of the snake
Answer key:

| $\sqrt[A]{c}$ |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |
| $B$ |  |  |  |  |  |  |
| 2 |  |  |  |  | 3 |  |
|  |  |  |  |  |  |  |
| 3 |  |  | 5 |  |  | 2 |
|  |  |  |  |  |  |  |
|  | 1 |  |  |  |  | 2 |
| 0 |  |  |  |  |  |  |


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## Horse Snake

Refer to previous page for rules.

|  |  | 2 |  |  |  |  |  | 1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  | $X$ |  |  |  |
|  |  |  | 2 |  |  | 3 |  |  |
|  |  |  |  |  | 5 |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  | 2 |  |  |  |  |  |
|  |  | $?$ |  |  | 5 |  |  |  |
|  |  |  | $X$ |  |  |  |  |  |
| 0 |  |  |  |  |  | 3 |  | $O$ |


| X |  |  |  | 2 |  |  |  | 2 |  |  | X |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 6 |  |  |  | X |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 1 |  |  | 2 |
| 1 |  |  |  |  |  |  | 0 |  |  |  |  |
|  |  |  |  |  |  | 5 |  |  |  |  |  |
|  |  |  |  |  | 1 |  |  |  |  |  |  |
|  |  |  |  | 0 |  |  |  |  |  |  | 0 |
| 3 |  |  | 5 |  |  |  |  |  |  |  |  |
|  |  |  |  |  | $X$ |  |  |  | 7 |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| $X$ |  | 1 |  |  |  | 0 |  |  |  | $X$ |  |

$>$ Locate a snake (a 1 cell-wide single continuous path) in the grid whose head and tail are given.
$>$ The snake does not touch itself, even diagonally.
$>$ Numbers starting 1 are put along the path of the snake.
$>$ Numbers outside the grid indicate the sum of all the snake parts in particular row and column.

## Answer key:


$35 \quad 37 \quad 19$


|  | 22 |  | 46 |  | 63 |  | $F$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 54 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  | 1 |  |  |  |  |  |  |
| 63 |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 26 |  |  |  |  |  |  |  |  |
|  |  | 41 |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |

## Summed Snake

Refer to previous page for rules.

> Apply Standard Snake rules.
A Additionally, the grid wraps around itself. So the snake can go from one edge to another.

## Answer key:




Refer to previous page for rules.

|  | 1 | 7 | 1 | 3 | 5 | 3 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 |  |  |  |  |  |  |  |
|  | $\bigcirc$ |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |
| E |  |  |  |  |  |  |  |
| 4 |  |  |  |  |  |  |  |
| 3 |  |  |  |  | - |  |  |
| F |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |


|  | 9 | 5 | 3 | 2 |  |  | T |  | 6 | 47 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $\bigcirc$ | $\square$ | $1$ |  |  |  |  |
| 4 |  |  |  |  |  |  |  |  |  |  |  |
| 1 |  |  |  |  |  |  |  |  |  |  |  |
| 8 | $\bigcirc$ |  |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |
| 7 |  |  |  |  |  |  |  |  |  |  |  |
| $\sigma$ |  |  |  |  |  |  |  |  |  |  |  |
| 2 |  |  |  |  |  |  |  |  |  |  |  |
| 6 |  |  |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |

## Graffiti Snake

## $2+1+2$ points

Paint some cells black to create walls.
> Numbers outside the grid indicate the lengths of blackened cell blocks in the corresponding directions, in order.
$>$ If there is more than one blackened block in a row or column, there must be at least one white cell between the blocks.
> After all black cells are determined; a snake should travel through all the unoccupied cells, moving horizontally or vertically without touching itself, even diagonally.
> The head and the tail of the snake are given in circles.
> The clue "?" can be replaced by a number greater than zero.

## Answer key:



## Graffiti Snake



False Graffiti
> Apply Graffiti Snake rules, except that all clues outside the grid are false.
> They are either 1 less or 1 more than the actual clues
$>$ Note that 1 can become 0 too.
Answer key:

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## Multiple Snakes

> Apply standard Snake rules; however multiple snakes are there in the grid.
> Head and tail of all snakes are given.
> Different snakes cannot touch each other, even diagonally.
Answer key:


End of Test
$>$ Locate a snake (a 1 cell-wide single continuous path) in the grid whose head and tail are given.
$>$ The snake does not touch itself, even diagonally.
$>$ Numbers outside the grid indicate the number of snake cells in that row/column.
Answer key:


Refer to previous page for rules.

> Apply Standard Snake rules.
> The numbers inside the grid indicate the number of snake parts in the knight step from the clue indicated.
> The clue "?" can be replaced by a number greater than zero.
> The cells with cross cannot be a part of the snake
Answer key:


## Horse Snake

Refer to previous page for rules.


$\Delta$
$>$ Locate a snake (a 1 cell-wide single continuous path) in the grid whose head and tail are given.
$>$ The snake does not touch itself, even diagonally.
$>$ Numbers starting 1 are put along the path of the snake.
$>$ Numbers outside the grid indicate the sum of all the snake parts in particular row and column.
Answer key:


Refer to previous page for rules.

> Apply Standard Snake rules.
> Additionally, the grid wraps around itself. So the snake can go from one edge to another.

## Answer key:




Refer to previous page for rules.



## Graffiti Snake

> Paint some cells black to create walls.
$>$ Numbers outside the grid indicate the lengths of blackened cell blocks in the corresponding directions, in order.
> If there is more than one blackened block in a row or column, there must be at least one white cell between the blocks.
> After all black cells are determined; a snake should travel through all the unoccupied cells, moving horizontally or vertically without touching itself, even diagonally.
> The head and the tail of the snake are given in circles.
> The clue "?" can be replaced by a number greater than zero.

## Answer key:



## Graffiti Snake


> Apply Graffiti Snake rules, except that all clues outside the grid are false.
> They are either 1 less or 1 more than the actual clues
$>$ Note that 1 can become 0 too.
Answer key:


## Multiple Snakes

> Apply standard Snake rules; however multiple snakes are there in the grid.
> Head and tail of all snakes are given.
> Different snakes cannot touch each other, even diagonally.
Answer key:


## End of Test

