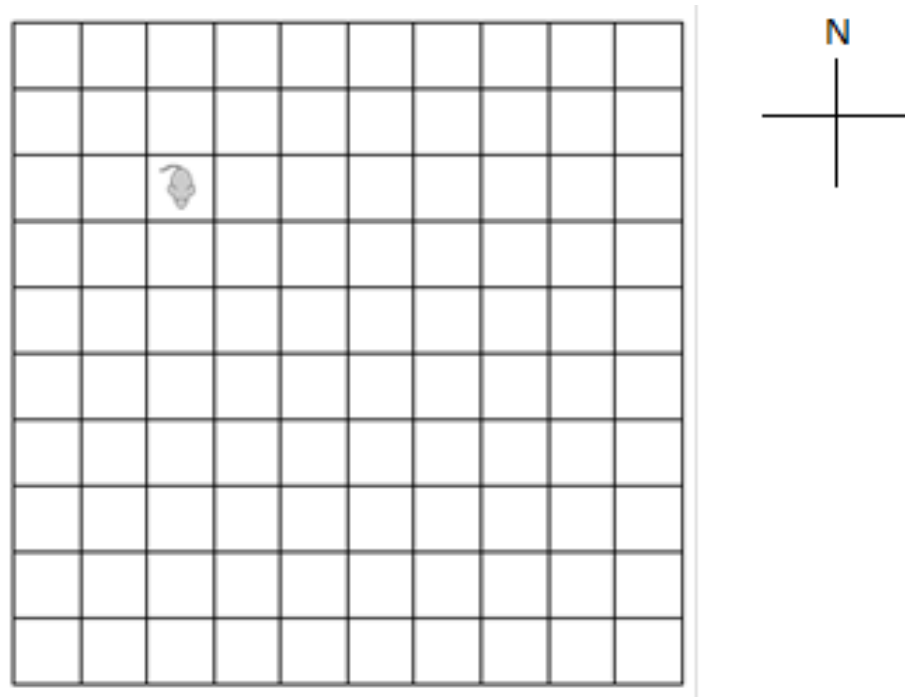


[A moving mouse] Suppose that there is a mouse, which can freely move on a 10 x 10 2D plane. It initially occupies the following slot of the plane.



Every time, the mouse moves to its neighbor slot in either of the directions, N, E, S or W (its head in the diagram is facing S). When it moves across the boundary, it will appear in the boundary slot of the opposite direction. For example, if it is next to northern boundary and it moves north, it will appear on the same column next to the southern boundary. If it is on the eastern boundary and it moves east, it will appear on the same row next to the western boundary.

Write a Python program, which upon an input sequence of movement directions, it outputs the final position of the mouse in the form of a picture.

[illegible]

WWSWNWENNNE	***** ***** ***** ***** ***** ***** ***** *****M ***** *****
-------------	---

Note: In the output, ‘\*’ represents an empty slot. ‘M’ represents the mouse.