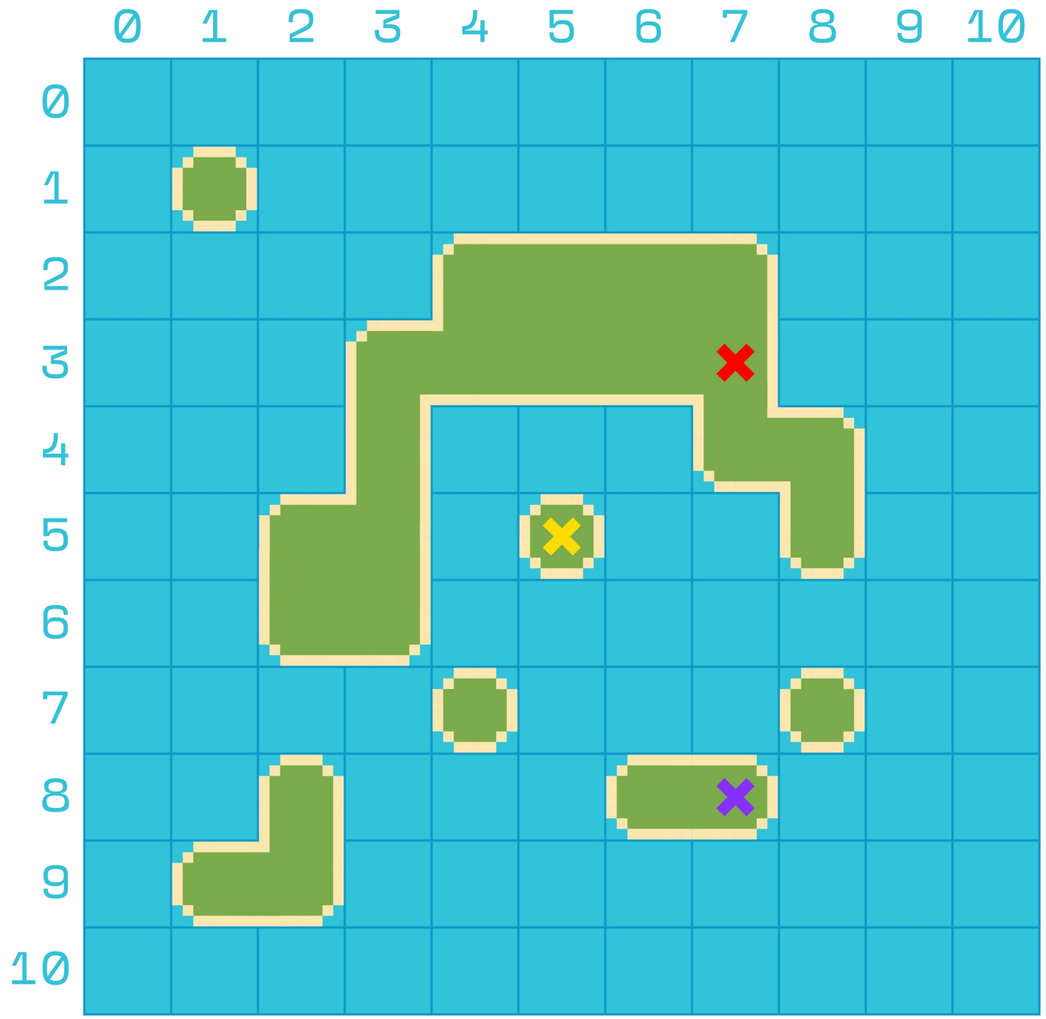
LEVEL 5

- Given a map and a list of coordinates, for each coordinate, **find a sea route encircling the island containing that tile.**
- You can choose the start of your route freely.
- Your route must end on one of the 8 neighbor tiles of tile where it started.
- Your route may or may not encircle other islands as well.
- Hint: Islands will never contain lakes.



Checklist for routes:

- **Must not** visit any tile that is land.
- **Must not** have gaps.
- **Must not** visit the same tile twice.
- **Must not** have two diagonal steps crossing each other.
- **Must not** be longer than twice the width of the map.
- **Must** end on one of the 8 neighbor tiles of tile where it started.

Input

Name	Description	Example
Size of Map	An integer representing the width and height of the map	11
Map	A paragraph of characters	WWWWWWWWWWW WLWWWWWWWWW WWWWLLLLWWW WWWLLLLLWWW WWWLWWWLLWW WWLLWLWWLWW WWLLWWWWWWW WWWWLWWWLWW WWLWWWLLWWW WLLWWWWWWWW WWWWWWWWWWW
N	An integer representing the number of coordinates	3
Coordinate (repeated N times)	A **pair of integers** representing a tile on the map.	7,3 5,5 7,8

Output - **identical to previous level**

Name	Example
Path (repeated N times)	4,1 5,1 6,1 7,1 8,2 8,3 9,4 9,5 8,6 7,6 6,6 5,6 4,6 3,7 2,7 1,6 1,5 1,4 2,3 3,2 5,4 6,5 5,6 4,5 6,7 7,7 8,8 7,9 6,9 5,8

This is just an example solution. Any solution satisfying the rules on the previous page is correct.

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