

Goal 4 – Circular



Due to the large turning circle of the harvester, Dave wants to harvest some fields circularly, again starting from a corner plot.

When harvesting columns, the order is: 1st column, last column, 2nd column, last but one column, 3rd column, ...

1		2		3		4	
5		6		7		8	
9		10		11		12	

A blue line diagram illustrates a circular harvesting path on the grid. It starts at the bottom-left corner (cell 9), moves right to the bottom-right corner (cell 12), then up to the top-right corner (cell 4), and finally left to the top-left corner (cell 1). An arrow points upwards from cell 11 towards cell 3, indicating the direction of travel.

The harvester can only turn outside the field. Dave always harvests full columns (or rows). Note: he does not harvest spirally!

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Input: <#ofRows> <#ofColumns> <StartRow> <StartColumn> <Direction> <Mode>

StartRow: 1 | <#ofRows>

StartColumn: 1 | <#ofColumns>

Direction: 'N' | 'O' | 'S' | 'W'

Modus: 'Z' | 'S'

(Z = circular, S = serpentine)

Output: <Nr1> <Nr2> ... <NrN>

Goal 4 – Examples



Example 1:

Input: 3 4 1 4 S Z

Output: 4 8 12 9 5 1 3 7 11 10 6 2

Example 2:

Input: 5 2 5 2 N Z

Output: 10 8 6 4 2 1 3 5 7 9