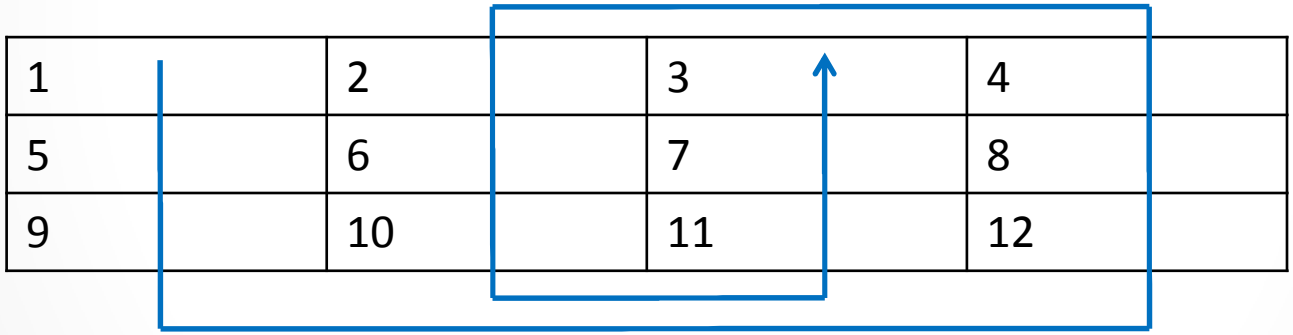
Goal 4 – Circular

Catalysts Coding Contest

Due to 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, ...



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

Catalysts
software is our passion

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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 = sepentines)
Output:	**<Nr1> <Nr2> … <NrN>**	

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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