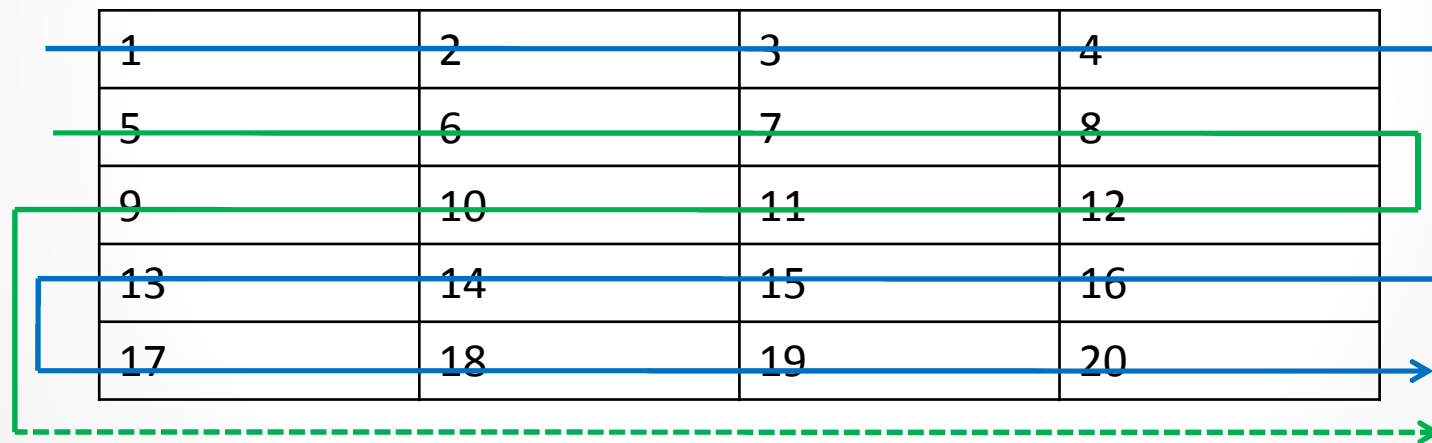


Goal 5 – Split



Dave bought a larger harvester for large fields. This harvester has two harvesting units (mowers) and can harvest two plots simultaneously.

In the result list, first give the number of the left plot then the number of the right plot (relative to the driving direction of the harvester). Plots that have already been harvested must not be in the result list a second time. Plots that are outside of the field must not be in the result at all.



Plot order for the example above:

1 5 2 6 3 7 4 8 16 12 15 11 14 10 13 9 17 18 19 20

Goal 5 – Split



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

StartRow: 1 | <#ofRows>

StartColumn: 1 | <#ofColumns>

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

Modus: 'Z' | 'S' (Z = circular, S = serpentine)

Width: 1 | 2

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

Note: <StartRow> and <StartColumn> define the first plot harvested by the left harvesting unit of the harvester. This is not necessarily a corner plot!

Goal 5 – Examples



Example 1:

Input: 5 4 1 1 O S 2

Output: 1 5 2 6 3 7 4 8 16 12 15 11 14 10 13 9 17 18 19 20

Example 2:

Input: 5 4 4 1 O Z 2

Output: 13 17 14 18 15 19 16 20 8 4 7 3 6 2 5 1 9 10 11 12