Curie's Waterfall X16329_en

Input

Two integers representing the number of rows and columns of the waterfall wall, followed by a series of waterfall elements, which ends with an "end" string. Each element is represented by a different character, followed by the position of the element, represented by a row and a column. Each of the elements is defined as follows: - Font: the character 'O'. - Rock: the character 'R'. - Wormhole: the character 'W' (followed by 2 connected positions). - Black hole: the character 'B'. - Magnet: the character 'M' followed by its position, the type of magnet (- for repulsion and + for attraction), the radius of the magnetic field, and its power (both integer). All the given numbers are integers.

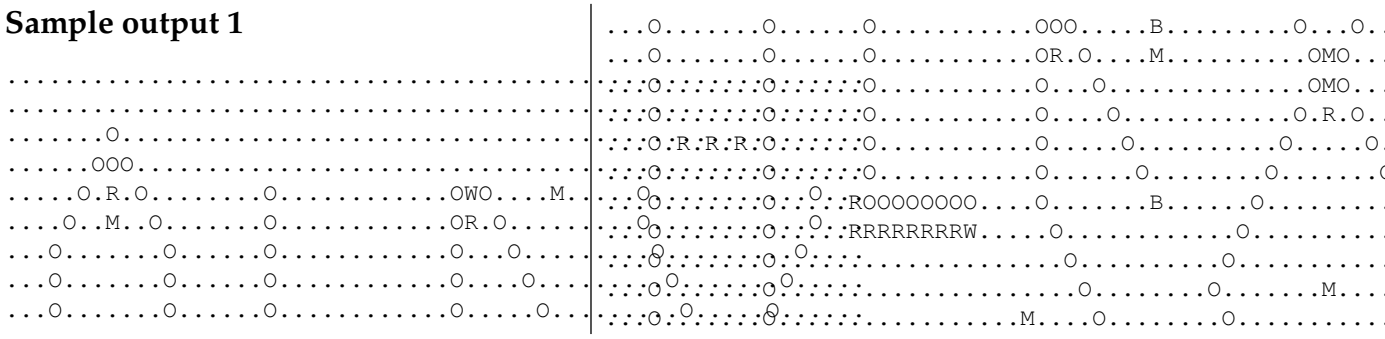
Output

A two-dimensional diagram of the waterfall, representing the path (or paths) the radioactive fluid will follow, according to the input configuration of Curie's Waterfall. Each cell is represented by a character, with an empty space represented by a dot ('.'), and the rest of the characters as outlined in the instructions. The path of the fluid should be represented by the character 'O'.

Sample input 1

```
20
60
O 2 7
R 4 7
M 5 7 - 4 1
R 13 5
R 13 7
R 13 9
O 4 18
R 15 17
R 16 17
R 16 18
R 16 19
R 16 20
R 16 21
R 16 22
R 16 23
R 16 24
W 16 25 4 32
R 5 32
R 10 31
M 4 38 + 7 1
B 9 38
M 10 38 + 7 1
B 15 38
M 19 29 - 5 1
O 4 44
O 4 56
M 10 50 + 15 1
M 11 50 + 15 1
R 12 50
M 18 50 - 8 3
end
```

Sample output 1



Problem information

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