Problem 12816 2021/11/10 下午6:06

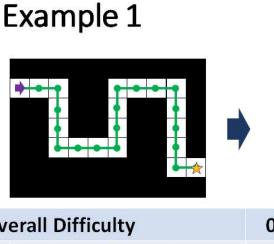
12816 - Maze Difficulty Sorting

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Description

- We are developing a computer game, and we need to sort mazes according to their difficulty
 - so that game levels can begin from easy mazes to difficult mazes and achieve a good game experience
- Difficulty factors (larger is better)*
 - N1: Number of forks along the correct path
 - N2: Number of dead ends
 - L1: Length of the correct path
 - L2: Medium length of incorrect paths apart from the correct path
 - For a even number of incorrect paths, take the average of the medium two
- Overall difficulty = ((N1 + N2) * (L1 + L2))

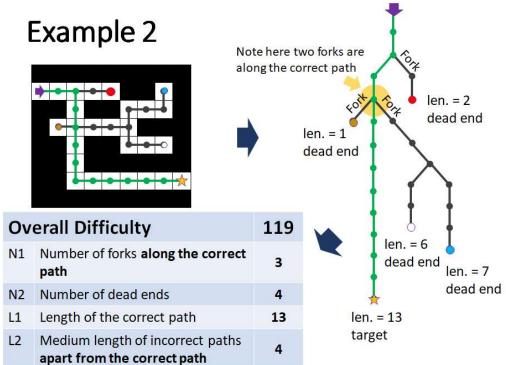
N1 --> N2 --> L1 --> L2 --> Larger serial number is more difficult



Overall Difficulty		0
N1	Number of forks along the correct path	0
N2	Number of dead ends	0
L1	Length of the correct path	19
L2	Medium length of incorrect paths apart from the correct path	0

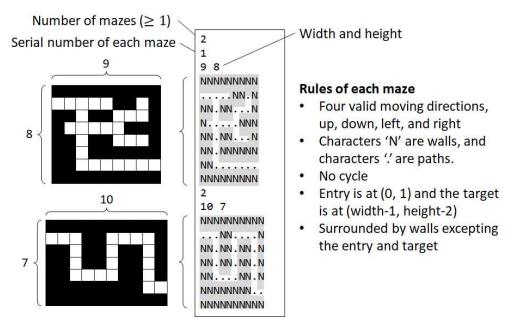


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Input

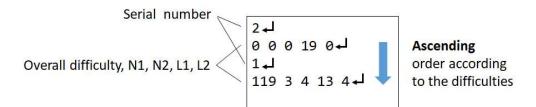
Input



Output

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Output



Sample Input

```
1
98
NNNNNNNN
....NN.N
NN.NN...N
N....NNN
NN.NN...N
NN.NNNNNN
NN.....
NNNNNNNN
10 7
иииииииии
...NN....N
NN.NN.NN.N
NN NN NN N
NN....NN.N
NNNNNNN..
NNNNNNNNNN
17 7
....N...N.N....N
NNN N NNN N NNNNN
N.....N
N.N....N.N.N.N..
NNNNNNNNNNNNNNNN
7 13
NNNNNN
.....N
N.N.NNN
N.N...N
NNN.N.N
N...N.N
NNN.N.N
N...N.N
NNNNN.N
N.....N
NNN.NNN
NNNNNN
15.7
NNNNNNNNNNNNN
.....N....N
NNNNN NNN NNNNN
N.N.....N.N.N
N.N.NNN.N.N.N.N
N.....N.N.....
NNNNNNNNNNNN
```

Sample Output

```
2
0 0 0 19 0
1
1119 3 4 13 4
4
242 5 6 20 2
5
260 6 7 18 2
3
416 8 8 24 2
```

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