



# 杭州电子科技大学

**HANGZHOU DIANZI UNIVERSITY**

**Online Judge**



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## Find a way

Time Limit: 3000/1000 MS (Java/Others)    Memory Limit: 32768/32768 K (Java/Others)  
Total Submission(s): 30699    Accepted Submission(s): 9832

### Problem Description

Pass a year learning in Hangzhou, yifenfei arrival hometown Ningbo at finally. Leave Ningbo one year, yifenfei have many people to meet. Especially a good friend Merceki.  
Yifenfei's home is at the countryside, but Merceki's home is in the center of city. So yifenfei made arrangements with Merceki to meet at a KFC. There are many KFC in Ningbo, they want to choose one that let the total time to it be most smallest.  
Now give you a Ningbo map, Both yifenfei and Merceki can move up, down ,left, right to the adjacent road by cost 11 minutes.

### Input

The input contains multiple test cases.  
Each test case include, first two integers n, m. ( $2 \leq n, m \leq 200$ ).  
Next n lines, each line included m character.  
'Y' express yifenfei initial position.  
'M' express Merceki initial position.  
'#' forbid road;  
'.' Road.  
'@' KCF

### Output

For each test case output the minimum total time that both yifenfei and Merceki to arrival one of KFC.You may sure there is always have a KFC that can let them meet.

### Sample Input

```
4 4
Y.#@
....
.#..
@..M
4 4
Y.#@
....
.#..
@#.M
5 5
Y..@.
.#...
.#...
@..M.
#...#
```

### Sample Output

```
66
88
66
```

Author

yifenfei

Source

奋斗的年代

Recommend

yifenfei

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Hangzhou Dianzi University Online Judge 3.0  
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Designer & Developer : [Wang Rongtao](#) [LinLe](#) [GaoJie](#) [GanLu](#)  
Total 0.015600(s) query 1, Server time : 2019-07-17 19:22:08, Gzip disabled

[Administration](#)