Csu 2011 JulyContest problems by Gestapolur

Probs

 $C\ A\ simple\ maze\ 256MB\ Memory$, 1s problem description

Now you are in a simple maze .The maze will be describe as a 0/1 matrix. 0 is road and 1 instead of wall . You stand at start position (Sr,Sc) first .You could move to north\south\west\east at one step. Your task is to find the shortest path to exit in end position(Er,Ec).

If you start in the wall or no path from start position to end position , just print "No Path." (No quotation marks)

input format

The first line :a integer $T(1 \le T \le 10)$, the total test cases.

In each test cases:

First line : Two integers N and M ($1 \le N, M \le 50$), the row and column that the maze has.

The second line : Four integers $(1 \le Sr, Er \le N, 1 \le Sc, Ec \le M)$, instead Sr, Sc, Er, Ec.

Next N lines: The maze as the description above.

output format

For each test case, out put a integer which is the minimum steps from start position to end position.

sample input

1111111001 sample output

11 hint

The sample test case move as follow:

 $G\ A\ simple\ Add\ 64MB\ Memory$, $\ 1s$

problem description

Give two integers A and B, calculate their sum.

input format

First Line : A integer T , the total testcases.

- 2..2*k..2*T line: A integer A(no more than 1000 digits) in the description above.
- 3..2*k+1..2*T+1 lines : A integer B(no more than 1000 digits) , as the description above.

output format

For each test case, output the sum of A and B inputted.

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sample input
1
2
-1
2
sample output
3
1
M 简单添加 16MB Memory, 1s
problem description
  在长度为 N(1 <= N <= 20)的一串数字添加 K(0 <= K < N)个加号,使得最后的和最大。
input format
第一行:一个整数T,表示测试数据的组数。
2..2*k..2*T 行:两个整数,n,k, 同题目描述。
3..2*k+1..2*T+1 行:一个长度为n的数字串。
output format
T 行, 第 i 行对应题目中的第 i 组测试数据。
sample input
2
42
1234
5.3
12335
sample output
37
41
hint
第一组数据的解释: 1+2+34 = 37
第二组数据的解释: 1+2+3+35 = 41
N 简单统计 256MB Memory, 2s
problem description
给定一个字符串 S, 其不相同的子串个数。
子串定义:对于i <= j, S[i]...S[j]这一段字符顺次排列形成的字符串。
input format
第一行:一个整数T(1 <= T <= 20),表示测试数据的个数。
2..T+1 行:每行一个字符串,长度不超过1000,字符全部为小写字母。
output format
对于每个测试数据,输出其不相同的子串个数
sample input
2
aaaaa
ababa
sample output
5
```