

Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
8082692	17:12:16	Dungeon master	✖ Wrong Answer	0.01 s	C++
	✔✖				

Submission contains 1 file:

download zip archive

FILENAME	FILESIZE	SHA-1 SUM	
dungeon.cpp	1762 bytes	706261f7f61717a8cfa7d0eb8e575b8ec14bc0e2	<div>download</div>

Edit and resubmit this submission.

dungeon.cpp

```
1 //https://open.kattis.com/problems/dungeon
2
3 #include <bits/stdc++.h>
4 int L,R,C;
5 char s[31][31][31];
6 int look_in_on[31][31][31];
7 int sx,sy,sz;
8 bool banner;
9 int footstep[6][3]={{0,0,-1},{0,0,1},{1,0,0},{-1,0,0},{0,1,0},{0,-1,0}};
10 class Points{
11 public:
12     struct my_point{
13         int x,y,z;
14         int conti;
15     }f,g;
16 };
17 class Dungeon:public Points{
18 public:
19     void bfs()
20     {
21         std::queue<my_point>q;
22         while(!q.empty())
23             q.pop();
24         memset(look_in_on,0,sizeof(look_in_on));
25         f.x=sx;
26         f.y=sy;
27         f.z=sz;
28         f.conti=0;
29         look_in_on[f.x][f.y][f.z]=1;
30         q.push(f);
31         while(!q.empty())
32             f=q.front();
33         q.pop();
34         if(s[f.x][f.y][f.z]=='E')
35             {
```

```

37         std::cout<<"Escaped in "<<f.conti<<" minute(s)."<<"\n";
38         banner=true;
39     }
40
41     for(int i=0;i<6;i++)
42     {
43         g.x=f.x+footstep[i][0];
44         g.y=f.y+footstep[i][1];
45         g.z=f.z+footstep[i][2];
46         if(g.x>=0&&g.x<L&&g.y>=0&&g.y<R&&g.z>=0&&g.z<C)
47         {
48             if(!look_in_on[g.x][g.y][g.z]&&s[g.x][g.y][g.z]!='#')
49             {
50                 g.conti=f.conti+1;
51                 look_in_on[g.x][g.y][g.z]=1;
52                 q.push(g);
53             }
54         }
55     }
56 }
57 };
58
59
60 int main()
61 {
62     std::ios_base::sync_with_stdio(false);
63     std::cin.tie(0);
64     Dungeon S1= Dungeon();
65     while(std::cin>>L>>R>>C&&L&&R&&C)
66     {
67         for(int i=0;i<L;i++)
68         for(int j=0;j<R;j++)
69         for(int k=0;k<C;k++)
70         {
71             std::cin>>s[i][j][k];
72             if(s[i][j][k]=='S'){
73                 sx=i,sy=j,sz=k;
74             }
75         }
76
77         banner=false;
78         S1.bfs();
79         if(!banner){
80             std::cout<<"Trapped!"<<"\n";
81         }
82     }
83     return 0;
84 }

```