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PROG: lphone

LANG: C++

ID: hayk.sa1

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#include <cstdio>

#include <queue>

using namespace std;

int n, m;

int d[110][110];

char s[110][110];

struct P

{

int i, j;

} p[2], q, r;

queue<P> Q;

int di[4] = {-1, 0, 0, 1};

int dj[4] = {0, -1, 1, 0};

int main()

{

freopen("lphone.in", "r", stdin);

freopen("lphone.out", "w", stdout);

int k=0, i, j;

scanf("%d%d", &m, &n);

for (i = 0; i < n; i++)

{

scanf("%s", s[i]);

for (j = 0; j < m; j++)

if (s[i][j] == 'C')

{

p[k].i = i;

p[k++].j = j;

}

}

Q.push(p[0]);

d[p[0].i][p[0].j] = 1;

while (1)

{

q = Q.front();

if (q.i == p[1].i && q.j == p[1].j)

{

printf("%d\n", d[q.i][q.j]-2);

return 0;

}

Q.pop();

for (k = 0; k < 4; k++)

for (r.i=q.i+di[k],r.j=q.j+dj[k]; r.i>=0 && r.i<n && r.j>=0 && r.j<m && s[r.i][r.j]!='\*'; r.i+=di[k],r.j+=dj[k])

if (!d[r.i][r.j])

{

d[r.i][r.j] = d[q.i][q.j]+1;

Q.push(r);

}

}

return 0;

}