

Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
8096189	01:47:18	Rings	✔ Accepted	0.01 s	C++
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FILENAME	FILESIZE	SHA-1 SUM	
rings2.cpp	1675 bytes	0b41548c3820f6d49b757152b290e3be362925ec	download

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rings2.cpp

```
1 #include <bits/stdc++.h>
2 using namespace std;
3
4 int ring[120][120];
5
6 int main() {
7     ios_base::sync_with_stdio(false);
8     cin.tie(nullptr);
9     cout.precision(10);
10
11     n, m;
12     >> n >> m;
13
14     for (int i = 1; i <= n; ++i) {
```

```

15     for (int j = 1; j <= m; ++j) {
16         char c;
17         cin >> c;
18
19         if (c == 'T') {
20             ring[i][j] = 100;
21         }
22     }
23 }
24
25 for (int iter = 0; iter < 50; ++iter) {
26     for (int i = 1; i <= n; ++i) {
27         for (int j = 1; j <= m; ++j) {
28             ring[i][j] = min(ring[i][j], ring[i][j - 1] + 1);
29             ring[i][j] = min(ring[i][j], ring[i][j + 1] + 1);
30             ring[i][j] = min(ring[i][j], ring[i - 1][j] + 1);
31             ring[i][j] = min(ring[i][j], ring[i + 1][j] + 1);
32         }
33     }
34 }
35
36 int maxring = 0;
37
38 for (int i = 1; i <= n; ++i) {
39     for (int j = 1; j <= m; ++j) {
40         maxring = max(maxring, ring[i][j]);
41     }
42 }
43
44 for (int i = 1; i <= n; ++i) {
45     for (int j = 1; j <= m; ++j) {
46         if (maxring >= 10) {
47             if (ring[i][j] >= 10) {
48                 cout << '.' << ring[i][j];
49             } else if (ring[i][j] >= 1) {
50                 cout << ".." << ring[i][j];
51             } else {
52                 cout << "...";
53             }
54         } else {
55             if (ring[i][j] >= 1) {
56                 cout << '.' << ring[i][j];
57             } else {
58                 cout << "..";

```

```
59         }
60     }
61 }
62     cout << endl;
63 }
64
65     return 0;
66 }
```