

# Submission

| ID      | DATE             | PROBLEM | STATUS     | CPU    | LANG |
|---------|------------------|---------|------------|--------|------|
|         | TEST CASES       |         |            |        |      |
| 8035310 | 17:51:54         | Rings   | ✔ Accepted | 0.00 s | C++  |
|         | ✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔ |         |            |        |      |

Submission contains 1 file: 

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| FILENAME   | FILESIZE   | SHA-1 SUM                                |                     |
|------------|------------|--|---------------------|
| rings2.cpp | 1911 bytes | 10de3dff0316117938bd5bdf773f83fca4125aa5 | <div>download</div> |

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## rings2.cpp

```
1 #include <bits/stdc++.h>
2 class Solution {
3     public:
4     int h, w;
5     void Solve()
6     {
7         std::cin >> h >> w;
8         char T[150][150];
9         for(int i = 0; i < 103; i++)
10         {
11             for(int j = 0; j < 103; j++)
12             {
13                 T[i][j] = '.';
14             }
15         }
16         for(int i = 1; i <= h; i++)
17         {
18             for(int j = 1; j <= w; j++){
19                 std::cin >> T[i][j];
20             }
21         }
22         bool intercambio = true;
23         int k = 0;
24         while(intercambio)
25         {
26             k++;
27             intercambio = false;
28             for(int i = 1; i <= h; i++)
29             {
30                 for(int j = 1; j <= w; j++)
```



```

34     if(T[i][j] == 'T' && (T[i-1][j] == '.' || T[i+1][j] == '.' || T[i][j-1] == '.' ||
T[i][j+1] == '.'))
35     {
36         T[i][j] = k + '0';
37         intercambio = true;
38     }
39     if(T[i][j] == 'T' && (T[i-1][j] == k + '0' - 1 || T[i+1][j] == k + '0' - 1 ||
T[i][j-1] == k + '0' - 1 || T[i][j+1] == k + '0' - 1))
40     {
41         T[i][j] = k + '0';
42         intercambio = true;
43     }
44
45     }
46 }
47 }
48
49 for(int i = 1; i <= h; i++)
50 {
51     for(int j = 1; j <= w; j++)
52     {
53         if(k < 10)
54         {
55             if(T[i][j] == '.')
56             {
57                 std::cout << "..";
58             }
59             else
60             {
61                 std::cout << '.' << int(T[i][j] - '0');
62             }
63         }
64         else
65         {
66             if(T[i][j] == '.')
67             {
68                 std::cout << "...";
69             }
70             else
71             {
72                 if(int(T[i][j] - '0') >= 10)
73                     std::cout << '.' << int(T[i][j] - '0');
74                 else
75                     std::cout << ".." << int(T[i][j] - '0');
76             }
77         }
78     }
79 }
80 std::cout << '\n';
81 }
82 }
83
84 };
85
86 int main(){
87     std::ios_base::sync_with_stdio(false);
88     std::cin.tie(NULL);
89     Solution S1= Solution();
90     S1.Solve();
91 }
92
93
94
95
96
97

```