```
1
    #include<iostream>
 2
    #include<iomanip>
 3
   using namespace std;
 4
    int m, n;
 5
    char a[100][100];
    void ruin(char (&a)[100][100], int i, int j)
7
         a[i][j] = '#';
8
         if(a[i+1][j]=='-' && i+1<m)</pre>
9
10
11
             ruin(a,i+1,j);
12
         }
         if(a[i][j+1]=='-' && j+1<n)
13
14
15
             ruin(a,i,j+1);
16
         }
17
         if(a[i-1][j]=='-' && i-1>0)
18
19
             ruin(a,i-1,j);
20
21
         if(a[i][j-1]=='-' && j-1>0)
22
             ruin(a,i,j-1);
23
24
         }
25
         return;
    }
26
27
28
    int main()
29
    {
30
         int t,people, rooms;
31
         char temp;
32
        cin >> t;
        while(t--)
33
34
35
             cin >> m >> n;
36
37
             people = 0;
38
             rooms = 0;
39
             for(int i=0; i<m; i++)</pre>
40
             {
41
                  for(int j=0; j<n; j++)</pre>
42
                  {
43
                      cin >> temp;
44
                      if(temp=='*')
45
46
                           people++;
                          a[i][j] = '-';
47
48
                      }
49
                      else
50
                          a[i][j] = temp;
51
                  }
52
             }
53
54
             for(int i=1; i<m-1; i++)</pre>
55
56
                  for(int j=1; j<n-1; j++)
57
                  {
58
                      if(a[i][j]=='-')
59
60
                           rooms++;
61
                           ruin(a,i,j);
```