Submission

ID	DATE	PROBLEM	STATUS	CPU	LANG
	TEST CASES				
8038012	04:46:53	Sheba's Amoebas	✔ **Accepted**	0.00 s	C++
	✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔✔				

Submission contains 1 file: download zip archive

FILENAME	FILESIZE	SHA-1 SUM	
amoebas.cpp	1603 bytes	fab87df19a7e65dad4d0453a654e66dcce48c972	download

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amoebas.cpp

```
1  //https://open.kattis.com/problems/amoebas
2  #include <bits/stdc++.h>
3  class Solution {
4    public:
5    void amoebaCount(int i, int x, int j, int y, std::vector<bool> &v)
6    {
7      v[i*y+j] = false;
8      for(int k = -1; k < 2; k++)
9      {
10       for(int l = -1; l < 2; l++)
11       {
12         if(k == 0 && l == 0){
13           continue;
14         }
15         i += k;
16         j += l;
17         if((i<x && i>= 0) && (j<y &&j >= 0 && v[i * y + j]))
18           amoebaCount(i, x, j, y, v);
19         i-= k;
20         j-= l;
21       }
22     }
23   }
24
25 };
26 int main(){
27   std::ios_base::sync_with_stdio(false);
28   std::cin.tie(NULL);
29   //freopen("input.txt", "r", stdin);
30   //freopen("output.txt", "w", stdout);
31   Solution S1= Solution();
32   //casos de prueba
33
34 ##.
35 #.........#
36 #..#...##..#
```

Help

```
#.##..#..#.#
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SALIDA:4

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SALIDA: 4
*/
  int x, y;
  std::cin >> x >> y;
  char pixel;
  std::vector<bool> A(x * y);
  for(int i = 0; i < x; i++){
    for(int j = 0; j < y; j++)
    {
      std::cin >> pixel;
      A[i*y+j] = (pixel == '#');
    }
  }

  int Count = 0;
    for(int i = 0; i < x; i++)
    {
      for(int j = 0; j < y; j++)
      {
        if(A[i * y + j]){
          Count++;
          S1.amoebaCount(i, x, j, y, A);
        }
      }
    }
    std::cout << Count << std::endl;
  return 0;
}
```