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Count occurences of a given word in a 2-d array 🔖   🐞

Hard   Accuracy: **53.13%**   Submissions: **3298**   Points: **8**

Find the number of occurrences of a given search word in a 2d-Array of characters where the word can go up, down, left, right and around 90 degree bends.

Example 1:

```
Input:
R = 4, C = 5
mat = {{S,N,B,S,N},
       {B,A,K,E,A},
       {B,K,B,B,K},
       {S,E,B,S,E}}
target = SNAKES
Output:
3
Explanation:
S N B S N
B A K E A
B K B B K
S E B S E
Total occurrence of the word is 3
and denoted by color.
```

Example 2:

```
Input:
R = 3, C = 3
mat = {{c,a,t},
       {a,t,c},
```

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```
target = cat
```
Output:

5

Explanation: Same explanation
as first example.

Your task:

You dont need to read input or print anything. Your task is to complete the
function **findOccurrence()** which takes the mat contaning N*M 2-d array of character and target as
input parameters and returns thethe number of occurrences of target.

Expected Time Complexity: $O(R*C*2^{2*len})$, Where len is length of target String.
Expected Auxiliary Space: $O(1)$

Constraints:

$1 \leq len \leq 15$
$1 \leq R, C \leq 50$

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```cpp
 9   //User function Template for C++
10
11   class Solution{
12       public:
13       int findOccurrence(vector<vector<char> > &mat, string target){
14       }
15   };
16   |
17   //{ Driver Code Starts.
18
19   int main() {
20       int t;
21       cin >> t;
22       while (t--) {
23           int R, C;
24           cin >> R >> C;
25           vector<vector<char> > mat(R);
26           for (int i = 0; i < R; i++) {
27               mat[i].resize(C);
28               for (int j = 0; j < C; j++) cin >> mat[i][j];
29           }
30           string target;
31           cin >> target;
32           Solution obj;
33           cout<<obj.findOccurrence(mat,target)<<endl;
34       }
35   }
36
37   // } Driver Code Ends
```

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