Daily Challenge **Happy Coding from necse**  **SkillRack**

Replace Color - Adjacent Pixels

The program must accept a character matrix of size **R*C** representing an image, the location of a pixel in the image (**X**, **Y**) and a color **CH** as the input. The program must replace the color of the given pixel and all adjacent same colored pixels with the color CH (all 8 possible directions). Finally, the program must print the revised matrix as the output.

Boundary Condition(s):
2 <= R, C <= 50
1 <= X <= R
1 <= Y <= C

Input Format:
The first line contains R and C separated by a space.
The next R lines, each contains C characters separated by a space.
The R+2nd contains X, Y and CH separated by a space.

Output Format:
The first R lines contain the revised matrix.

Example Input/Output 1:
Input:
4 3
B B W
W W W
W W W
B B B
2 2 G

Output:
B B G
G G G
G G G
B B B

Explanation:
Here R = **4**, C = **3**, X = **2**, Y = **2** and CH = **G**.
After replacing the color of the given pixel and all the adjacent same colored pixels with the color **G**, the image becomes
B B **G**
G G G
G G G
B B B

Example Input/Output 2:
Input:
5 6
R G R Y Y Y
G R G Y R R
R R R Y R R
G R G Y Y Y
G R R R G G
4 2 P

Output:
P G P Y Y Y
G P G Y R R
P P P Y R R
G P G Y Y Y
G P P P G G

Max Execution Time Limit: 50 millisecs

Ambiance

Java (12.0)

```java
import java.util.*;
public class Hello {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);
        int r = sc.nextInt();
        int c = sc.nextInt();

        char mat[][] = new char[r][c];

        for(int i=0;i<r;i++)
        for(int j=0;j<c;j++)
        mat[i][j]=sc.next().charAt(0);

        int k1 = sc.nextInt();
        int k2 = sc.nextInt();

        char changingValue = sc.next().charAt(0);

       // if(r==13)  {System.out.println(k1+" "+k2+mat[k1-1][k2-1]);


        }

        changeBounds(mat,k1-1,k2-1,mat[k1-1][k2-1],changingValue);

        for(int i=0;i<r;i++){
            for(int j=0;j<c;j++){
                System.out.print(mat[i][j]+" ");
            }
            System.out.println();
        }


    }

    public static void changeBounds(char[][] mat,int r,int c,char changeThis,char newValue){

       // if(r==8 && c==1 && mat.length==13) System.out.println(changeThis+"  functioncall   "+newV

        if( r<0 || c<0 || r>=mat.length || c>=mat[0].length) return;



        if(mat[r][c]!=changeThis) return;

        mat[r][c] = newValue;

        changeBounds(mat,r+0,c+1,changeThis,newValue);
        changeBounds(mat,r+0,c-1,changeThis,newValue);
        changeBounds(mat,r+1,c+0,changeThis,newValue);
        changeBounds(mat,r-1,c+0,changeThis,newValue);
        changeBounds(mat,r-1,c+1,changeThis,newValue);
        changeBounds(mat,r-1,c-1,changeThis,newValue);
        changeBounds(mat,r+1,c-1,changeThis,newValue);
        changeBounds(mat,r+1,c+1,changeThis,newValue);


    }
}
```

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Code did not pass the execution

You have used 2 reveals out of 3 in the past 7 Days.

Input:

```
13 20
S S P Q P R Q S P Q P P Q Q P S R S S P
P P R R Q Q S R R Q P P S P Q S P S R S
S S P Q Q R P Q Q S S S Q S S P P P S P
```

P R R Q Q P P S S S P P Q Q Q Q R S S Q
Q R R P P P Q Q Q P P Q Q P S R Q S Q S
P Q R S P Q P S R P S S P Q Q P Q Q Q S
P Q S Q Q P P R P P S R R P S P S S P P
Q Q Q R S Q Q R P Q S R S S R R Q Q S P
S S P Q S S Q R R P R Q Q P Q S P R R P
R P S Q S S R R S S Q R P S Q R S P Q R
P P Q R S Q R R S R R S Q R R R P S P P
R Q Q P S P S R R S R S Q Q P P R P Q R
S S R R S S R Q S S Q P P S P R R Q Q R
8 1 Y

Expected Output:

S S P Q P R Q S P Q P P Q Q P S R S S P
P P R R Q Q S R R Q P P S P Q S P S R S
S S P Q Q R P Q Q S S S Q S S P P P S P
P R R Q Q P P S S S P P Q Q Q Q R S S Q
Y R R P P P Y Y Y P P Q Q P S R Q S Q S
P Y R S P Y P S R P S S P Q Q P Q Q Q S
P Y S Y Y P P R P P S R R P S P S S P P
Y Y Y R S Y Y R P Q S R S S R R Q Q S P
S S P Y S S Y R R P R Q Q P Q S P R R P
R P S Y S S R R S S Q R P S Q R S P Q R
P P Y R S Q R R S R R S Q R R R P S P P
R Y Y P S P S R R S R S Q Q P P R P Q R
S S R R S S R Q S S Q P P S P R R Q Q R

Your Program Output:

8 1Q
Q functioncall Y
S S P Q P R Q S P Q P P Q Q P S R S S P
P P R R Q Q S R R Q P P S P Q S P S R S
S S P Q Q R P Q Q S S S Q S S P P P S P
P R R Q Q P P S S S P P Q Q Q Q R S S Q
Q R R P P P Q Q Q P P Q Q P S R Q S Q S
P Q R S P Q P S R P S S P Q Q P Q Q Q S
P Q S Q Q P P R P P S R R P S P S S P P
Q Q Q R S Q Q R P Q S R S S R R Q Q S P
S S P Q S S Q R R P R Q Q P Q S P R R P
R P S Q S S R R S S Q R P S Q R S P Q R
P P Q R S Q R R S R R S Q R R R P S P P
R Q Q P S P S R R S R S Q Q P P R P Q R
S S R R S S R Q S S Q P P S P R R Q Q R

11 **Private (Hidden) Test Cases Failed.**

2 Passed 11 Failed

MEM: 0.09765625 MB **CPU: 0.01**

Save Run