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## **Leetcode May Challenge DAY: 11**

### **1. Python**

---

```
R, C = len(image), len(image[0])
```

```
color = image[sr][sc]
```

```
if color == newColor: return image
```

```
def dfs(r, c):
```

```
    if image[r][c] == color:
```

```
        image[r][c] = newColor
```

```
        if r >= 1: dfs(r-1, c)
```

```
        if r+1 < R: dfs(r+1, c)
```

```
        if c >= 1: dfs(r, c-1)
```

```
        if c+1 < C: dfs(r, c+1)
```

```
dfs(sr, sc)
```

```
return image
```

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## 2. C++

---

```
class Solution {
public:
    vector<vector<int>> floodFill(vector<vector<int>>& image, int sr, int sc, int newColor)
    {
        vector<vector<bool>> visited(image.size(),vector<bool>(image[0].size(),false));
        fill(image, visited, sr, sc, newColor,image[sr][sc]);
        return image;
    }

    void fill(vector<vector<int>>& image, vector<vector<bool>>& visited, int row, int col,
    int newColor, int sameColor){
        if(row >= 0 && col >= 0 && row < image.size() && col < image[0].size() &&
        !visited[row][col] && image[row][col]==sameColor){
            image[row][col] = newColor;
            visited[row][col] = true;
            fill(image, visited, row-1, col, newColor, sameColor);
            fill(image, visited, row+1, col, newColor, sameColor);
            fill(image, visited, row, col-1, newColor, sameColor);
            fill(image, visited, row, col+1, newColor, sameColor);
        }
    }
};
```

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### 3. JAVA

---

```
class Solution {  
    public int[][] floodFill(int[][] image, int sr, int sc, int newColor) {  
  
        if(image.length == 0) {  
            return image;  
        }  
  
        int oldColor = image[sr][sc];  
  
        floodFill(image, sr, sc, oldColor, newColor);  
  
        return image;  
    }  
  
    private void floodFill(int[][] image, int i, int j, int oldC, int newC) {  
  
        if(i < 0 || j < 0 || i >= image.length || j >= image[0].length || image[i][j] == newC) {  
            return;  
        }  
  
        if(image[i][j] == oldC) {  
            image[i][j] = newC;  
            floodFill(image, i+1, j, oldC, newC);  
            floodFill(image, i-1, j, oldC, newC);  
            floodFill(image, i, j+1, oldC, newC);  
            floodFill(image, i, j-1, oldC, newC);  
        }  
    }  
}
```

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```
}  
  
}
```

