Java → Basic syntax and simple programs → Arrays → Multi-dimensional array

Multi-dimensional array → Pretty looking pattern

📶 Hard   🕐 20 minutes ⊘

In some design styles, a 4x4 matrix pattern is considered looking pretty if it doesn't contain a 2x2 matrix of the same color. Your task is to write the program that outputs "YES" if the 4x4 matrix is looking pretty, otherwise output "NO".

The input contains 4 lines, each line contains 4 symbols, different symbols represent different colors: W stands for white color, B is for black color, R is for red, G is for green, and Y is for yellow color.

📝 Report a typo

Sample Input 1:

```
WWWW
BBBB
WWWW
YYYY
```

Sample Output 1:

```
YES
```

Sample Input 2:

```
BBBB
BWWB
BWWB
BBBB
```

Sample Output 2:

```
NO
```

⌄ Write a program

Code Editor   IDE

```java
                                                                    Java
1   import java.util.*;
2   import java.util.Arrays;
3
4   public class Main {
5       public static void main(String[] arStrings) {
6           Scanner scanner = new Scanner(System.in);
7
8           boolean broken = false;
9           char[][] twoDimArr = new char[4][4];
10          String colorString;
11          for (int i = 0; i < 4; i++) {
12              colorString = scanner.nextLine();
13              twoDimArr[i] = colorString.toCharArray();
14          }
15
16          for (int i = 0; i < 3; i++) {
17              for (int j = 0; j < 3; j++) {
18                  if (twoDimArr[i][j] == twoDimArr[i][j + 1]) {
19                      if (twoDimArr[i][j] == twoDimArr[i + 1][j]) {
20                          if (twoDimArr[i][j] == twoDimArr[i + 1][j + 1]) {
21                              broken = true;
22                          }
23                      }
24                  }
25              }
26          }
27
28          if (broken) {
29              System.out.println("NO");
30          } else {
31              System.out.println("YES");
32          }
```

```
33            scanner.close();
34        }
35  }
36
```

✓ Correct, but can be improved.

224 users liked this problem. **15** didn't like it. **What about you?**

😍   🙂   😐   🙁   😡

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