DP-S013 (E040)

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Wildcard Pattern Matching

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The program must accept a **text** and a **wildcard pattern** as the input. The program must print "**Matching**" if the wildcard is matched with text. Else the program must print "**Not matching**" as the output.

The wildcard pattern can include the characters '?' and '*'

- '?' Matches any single character
- '*' Matches any sequence of characters (including the empty sequence)

Boundary Condition(s):

- 1 <= Length of text <= 100
- 1 <= Length of wildcard pattern <= 50

Input Format:

The first line contains the text.

The second line contains the wildcard pattern.

Output Format:

The first line contains either "Matching" or "Not matching".

Example Input/Output 1:

Input:

a*b?d

Output:

Matching

Explanation:

The wildcard pattern is "a*b?d".

'*' can be replaced by "bbbbbbbbccbbbb".

'?' can be replaced by "e".

Hence the output is Matching

Example Input/Output 2:

Input:

abbbbbbbbbccbhd

a*b??b?d

Output:

Matching

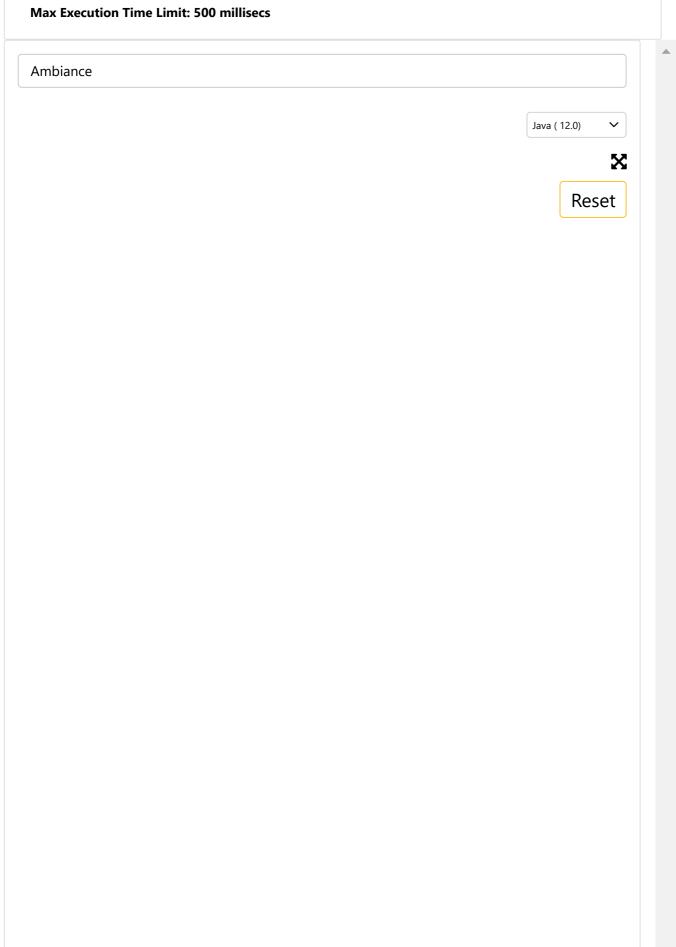
Example Input/Output 3:

Input:

abbbbbbbbbccbhd

*c??b?d
Output:
Not matching

Max Execution Time Limit: 500 millisecs



```
import java.util.*;
 1
   public class Hello {
 2
 3
 4
        public static void main(String[] args) {
 5
            Scanner sc = new Scanner(System.in);
 6
            String str = sc.next();
 7
 8
            String pattern = sc.next();
 9
10
            boolean[][] matrix = new boolean[str.length()+1][patte
                 .length()+1];
11
12
            matrix[0][0] =true;
13
            if(pattern.charAt(0) == '*')
14
15
            matrix[0][1] = true;
16
17
18
19
            for(int row=1;row<=str.length();row++)</pre>
20
21
                 for(int col=1;col<=pattern.length();col++)</pre>
22
                 {
23
                     if(str.charAt(row-1) == pattern.charAt(col-1)
                         pattern.charAt(col-1)=='?')
24
                     {
25
26
                         if(matrix[row-1][col-1] == true)
27
                         matrix[row][col] = true;
28
                     }
29
                     else if(pattern.charAt(col-1) == '*')
30
31
32
                         if(row==0)
                         matrix[row][col] = true;
33
                         if(matrix[row][col-1]==true || matrix[row
34
                             -1][col]==true)
35
                         matrix[row][col] = true;
36
                     }
37
                 }
            }
38
39
            if(matrix[str.length()][pattern.length()] == true)
40
41
            System.out.println("Matching");
42
43
            System.out.println("Not matching");
44
45
        }
46
   }
```

Code did not pass the execution

- >

