```
1
    /*Author: Bochen (mddboc@foxmail.com)
2
    Last Modified: Tue Apr 10 22:28:45 CST 2018*/
3
4
    /*You are climbing a stair case. It takes n steps to reach to the top.
5
6
     Each time you can either climb 1 or 2 steps. In how many distinct ways can
            you climb to the top?
7
8
     Note: Given n will be a positive integer.
9
10
11
    Example 1:
12
     Input: 2
13
14
            Output: 2
     Explanation: There are two ways to climb to the top.
15
16
17
     1. 1 step + 1 step
      2. 2 steps
18
     Example 2:
19
20
21
     eree Input: 3
     ----Output: --3
22
     Explanation: There are three ways to climb to the top.
23
24
25
     26
     2. 1 step + 2 steps
27
     * * * * * * 3. * 2 * steps * + * 1 * step*/
28
29
30
    import java.util.*;
31
    import java.lang.Math;
32
    import java.lang.System;
33
    import java.lang.Integer;
34
35
36
    public class Main {
37
38
    public static void main(String[] args) throws ArithmeticException {
39
40
      String input = "ab";
41
42
          boolean answer = new Solution().repeatedSubstringPattern(input);
43
44
          System.out.println("haha");
     . . . . }
45
46
47
    }
48
49
50
    class ListNode {
51
      int val;
52
     ListNode next;
53
     ListNode(int x) {
54
55
    v \cdot v \cdot v \cdot v \cdot val = x;
56
    . . . . . }
57
    }
58
59
60
   class TreeNode {
61
    int val;
62
     TreeNode left;
63
    TreeNode right;
64
65
     TreeNode(int x) {
66
           val = x;
67
     . . . . }
68
    }
69
70
71
    class Solution {
```

```
73 --- public int climbStairs(int n) {
74
75
    · · · · · · · · · if (n == 1) {
76
                return 1;
    77
78
79
80
81
    int[] result = new int[n + 1];
82
    result[1] = 1;
result[2] = 2;
83
84
85
    for (int i = 3; i <= n; i++) {
   result[i] = result[i - 1] +
}</pre>
86
87
               result[i] = result[i - 1] + result[i - 2];
88
89
     return result[n];
90
91
92
     }
```