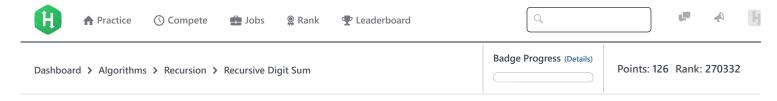
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Recursive Digit Sum **■**



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Given an integer, we need to find the super digit of the integer.

We define super digit of an integer \boldsymbol{x} using the following rules:

- If \boldsymbol{x} has only $\boldsymbol{1}$ digit, then its super digit is \boldsymbol{x} .
- Otherwise, the super digit of \boldsymbol{x} is equal to the super digit of the digit-sum of \boldsymbol{x} . Here, digit-sum of a number is defined as the sum of its digits.

For example, super digit of **9875** will be calculated as:

You are given two numbers n and k. You have to calculate the super digit of p.

p is created when number n is concatenated k times. That is, if n=123 and k=3, then p=123123123.

Input Format

The first line contains two space separated integers, $m{n}$ and $m{k}$.

Constraints

- $1 \le n < 10^{100000}$
- $1 \le k \le 10^5$

Output Format

Output the super digit of p, where p is created as described above.

Sample Input 0

148 3

Sample Output 0

3

Explanation 0

Here n = 148 and k = 3, so P = 148148148.

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f y in Submissions:<u>7925</u> Max Score:30 Difficulty: Medium Rate This Challenge: ☆☆☆☆☆

```
Current Buffer (saved locally, editable) & 40
                                                                                            Java 7
 1 ▼ import java.io.*;
 2 import java.util.*;
   import java.text.*;
    import java.math.*;
    import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 🔻
         static int superDigit(String n, int k) {
10
             // Complete this function
11
12
13 ▼
         public static void main(String[] args) {
14
             Scanner in = new Scanner(System.in);
15
             String n = in.next();
16
             int k = in.nextInt();
             int result = superDigit(n, k);
17
18
             System.out.println(result);
             in.close();
19
         }
20
21
    }
22
                                                                                                                     Line: 1 Col: 1
1 Upload Code as File
                      Test against custom input
                                                                                                         Run Code
                                                                                                                      Submit Code
```

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