https://course.acciojob.com/idle?question=be2b14d5-8ea8-4bc3-ab3 0-aa37c458f18d

- MEDIUM
- Max Score: 40 Points

## **Recursive Digit Sum**

Given an integer, we need to find the super digit of the integer  $\tt n$  which is concatenated  $\tt k$  times.

We define super digit of an integer n using the following rules:

- 1. If n has only 1 digit, then its super digit is n.
- 2. Otherwise, the super digit of n is equal to the super digit of the sum of the digits of n.

### **Input Format**

The first line contains two space separated integers, n and k.

## **Output Format**

In a new line, print the the super digit of n repeated k times.

Example 1	
Input:	
148 1	
Output:	
4	
Explanation:	

## Example 2

```
Input:
```

148 3

Output:

3

#### Explanation:

```
Here n=148 and k=3 , so p=148148148.
```

#### **Constraints:**

```
1 <= |digits in n| <= 25
1 <= k <= 50
```

#### **Topic Tags**

Recursion

# My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;
public class Main
 static String fun(String st)
  if(st.length()==1) return st;
int s=0;
  for(int i=0;i<st.length();i++)</pre>
     char ch=st.charAt(i);
     s+=ch-'0':
  return fun(String.valueOf(s));
     public static void main (String[] args) throws
java.lang.Exception
     {
           //your code here
    Scanner s=new Scanner(System.in);
    String str=s.next();
```

```
String st="";
int n=s.nextInt();
for(int i=0;i<n;i++)
st+=str;
System.out.print( fun(st));
}
```