https://course.acciojob.com/idle?question=fb272629-c1b0-4f67-8109-01cb73847595

- EASY
- Max Score: 30 Points

Number Rotation

Given two numbers `n` and `k`, you need to rotate n, k times to the right. If k is negative, rotate n, k times to the left.

Note:

1. **Rotating right means removing rightmost digit from `n` and adding it to the start.**
2. **Rotating left means removing leftmost digit from `n` and adding it to the end.**
3. **Assume that the number of rotations will not result in leading 0's, i.e. n=1203, k =2 such that 0312 is the answer, such test cases will not be given.**
4. **`k` can be bigger than `n`.**

Input Format

First line which has two integer `n` and `k`.

Output Format

Print the rotated number in a single line.

Example 1

Input

```
1256 1
```

Output

```
6125
```

Explanation

since k=1, right rotating the number one time leads to 6125.

Example 2

Input

```
1256 -1
```

Output

```
2561
```

Explanation

since k=1, left rotating the number one time leads to 2561.

Constraints

1 <= n,k <= 10^9

Topic Tags

- **Math**

My code

```
// n java
import java.util.*;

public class Main {
static      int rotateNumber(int n , int k){
        int ans = 0;
```

```
        int prod = 1;

        int len = (int) (Math.log10(n) + 1);

        k=((k % len) + len) % len;

        if(k==0)
                return n;
        //System.out.println(n+"  "+k+" "+len);
        while(k>0){
                 int rem = n%10;
                n= n/10;
                ans = ans + rem*prod;
                prod = prod*10;
                k--;
        }
         len = (int) (Math.log10(n) + 1);
        ans=ans*((int)Math.pow(10,len))+n;
        return ans;
}

    public static void main(String[] args) {

        // Write your code here
                Scanner s=new Scanner(System.in);
                int n=s.nextInt();
                int k=s.nextInt();

                System.out.print(rotateNumber( n , k));
    }
```

```
}
```