https://course.acciojob.com/idle?question=e556af86-9b3a-48a9-92ab-5905139c9d24

- EASY
- Max Score: 30 Points
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power calculation

You are given two integers, `N` and `X`. You have to find `X` raised to the power `N` in `O(N)` time complexity using `recursion`.

Note Complete the given function and use recursion to solve this problem.

It is guaranteed that the test cases are made such that the answer does not overflow a 64-bit integer datatype.

Input Format

The first line contains two integers, `X`, and `N`.

Output Format

Print the answer.

Example 1

Input

```
2 3
```

Output

```
8
```

Explanation

`2` raised to the power `3` is `8`.

Example 2

Input

```
10 5
```

Output

```
100000
```

Explanation

`10` raised to the power `5` is `100000`.

Constraints

1 <= X <= 10^8

1 <= N <= 64

Topic Tags

- **Recursion**

My code

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

class Main {
        public static long xPowerN(int x, int n){
```

```
            //write code here
            long ans=1L;
            for(int i=0;i<n;i++)
                  ans=ans*x;
      return ans;

       }
       public static void main(String[] args)
       {
            Scanner sc = new Scanner(System.in);
            int x = sc.nextInt();
            int n = sc.nextInt();
            System.out.println(xPowerN(x, n));
       }
}
```