```java
import java.io.*;
import java.util.*;
import java.lang.Exception;

public class Solution {

    public static void main(String[] args) {
        /* Enter your code here. Read input from STDIN. Print output to STDOUT. Your class should be named Solution. */
        Calculator calc = new Calculator();
        Scanner scanner = new Scanner(System.in);
        while(scanner.hasNextInt()){
           try{
            int n = scanner.nextInt();
        int p = scanner.nextInt();

           System.out.println(calc.checkItOut(n, p));
       } catch (Exception e){
           System.out.println(e);
       }
        }
    }


}
class Calculator{
        public static long checkItOut(int n, int p) throws Exception{
        long result = 0;
        if(n < 0 || p < 0){
            throw new Exception("n or p should not be negative.");
        }

       else if(n == 0 && p == 0){
            throw new Exception("n and p should not be zero.");
        } else {
        result = (long)Math.pow(n, p);
        }
        return result;
    }
    }
```