Java Exception Handling

Create a class *MyCalculator* which consists of a single method power(int, int). This method takes two integers, n and p, as parameters and finds n^p. If either n or p is negative, then the method must throw an exception which says "n and p should be non-negative".

Please read the partially completed code in the editor and complete it. Your class mustn't be public.

No need to worry about constraints, there won't be any overflow if your code is correct.

Input Format

Each line of the input contains two integers, n and p.

Constraints

- n

Output Format

Each line of the output contains the result n^p, if neither of n and p is negative. Otherwise the output contains "n and p should be non-negative".

Sample Input 0

```
3 5
2 4
0 0
-1 -2
-1 3
```

Sample Output 0

```
243
16
java.lang.Exception: n and p should not be zero.
java.lang.Exception: n or p should not be negative.
java.lang.Exception: n or p should not be negative.
```

Explanation 0

- In the first two cases, both n and p are postive. So, the power function returns the answer correctly.
- In the third case, both n and p are zero. So, the exception, "n and p should not be zero.", is printed.
- In the last two cases, at least one out of n and p is negative. So, the exception, "n or p should not be negative.", is printed for these two cases.