







▼ Leaderboard





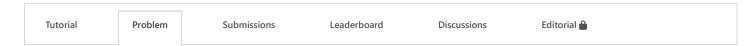




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Day 17: More Exceptions ■





Objective

Yesterday's challenge taught you to manage exceptional situations by using *try* and *catch* blocks. In today's challenge, you're going to practice throwing and propagating an exception. Check out the Tutorial tab for learning materials and an instructional video!

Task

Write a Calculator class with a single method: int power(int,int). The power method takes two integers, n and p, as parameters and returns the integer result of n^p . If either n or p is negative, then the method must throw an exception with the message: n and p should be non-negative.

Note: Do not use an access modifier (e.g.: public) in the declaration for your Calculator class.

Input Format

Input from stdin is handled for you by the locked stub code in your editor. The first line contains an integer, T, the number of test cases. Each of the T subsequent lines describes a test case in 2 space-separated integers denoting n and p, respectively.

Constraints

• No Test Case will result in overflow for correctly written code.

Output Format

Output to stdout is handled for you by the locked stub code in your editor. There are T lines of output, where each line contains the result of n^p as calculated by your *Calculator* class' *power* method.

Sample Input

4

3 5

2 4 -1 -2

-1 -. -1 3

Sample Output

243

16

n and p should be non-negative

n and p should be non-negative

Explanation

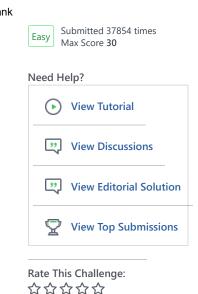
T = 4

 T_0 : 3 and 5 are positive, so *power* returns the result of 3^5 , which is 243.

 T_1 : $oldsymbol{2}$ and $oldsymbol{4}$ are positive, so *power* returns the result of $oldsymbol{2^4}$ =, which is $oldsymbol{16}$.

 T_2 : Both inputs (-1 and -2) are negative, so power throws an exception and n and p should be non-negative is printed.

 T_3 : One of the inputs (-1) is negative, so power throws an exception and n and p should be non-negative is printed.



Download problem statement

Download sample test cases

Suggest Edits

Run Code

Submit Code

⊌ in Current Buffer (saved locally, editable) & 🗗 🖸 Java 8 $1 \triangleright \text{import} \leftrightarrow;$ 3 ▼ class Calculator{ 4 5 ▼ public int power(int n, int p) throws Exception{ 6 ▼ if ((n < 0) | | (p < 0)) { throw new Exception("n and p should be non-negative"); 7 8 return (int) Math.pow(n, p); 9 10 11 } 12 } 13 ▶ class Solution{↔} 35 Line: 12 Col: 2

Testcase 0 ✓

Congratulations, you passed the sample test case.
Click the Submit Code button to run your code against all the test cases.

Input (stdin)

4
3 5

Test against custom input

1 Upload Code as File

```
2 4
-1 -2
-1 3

Your Output (stdout)

243
16
n and p should be non-negative
n and p should be non-negative

Expected Output

243
16
n and p should be non-negative
```

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