Asteroid Collision

Try to solve the Asteroid Collision problem.

We'll cover the following

Statement

You're given an array of integers, `asteroids`, representing a number of asteroids in a row. For each asteroid, the absolute value represents its size, and the sign represents its direction (positive meaning right, negative meaning left). Each asteroid moves at the same speed.

Find out the state of the asteroids after all collisions. If two asteroids meet, the smaller one will explode. If both are the same size, both will explode. Two asteroids moving in the same direction will never meet.

Constraints:

- $2 \leq$ `asteroids.length` $\leq 10^4$
- $-1000 \leq$ `asteroids[i]` ≤ 1000
- `asteroids[i]` $!= 0$

Examples

Sample example 1

Input

arr	5	10	-5

Output

arr	5	10

1 of 2

Sample example 2

Input

arr	5	-5

Output

arr	

2 of 2

Understand the problem

Let's take a moment to make sure you've correctly understood the problem. The quiz below helps you check if you're solving the correct problem:

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1 What is the output if the following array is given as input?

arr = [3, 9, -6, -2, 1, 2]

A) [3, 9, 1, 2]

B) [3, 3, -1, 2]

C) [12, -8, 3]

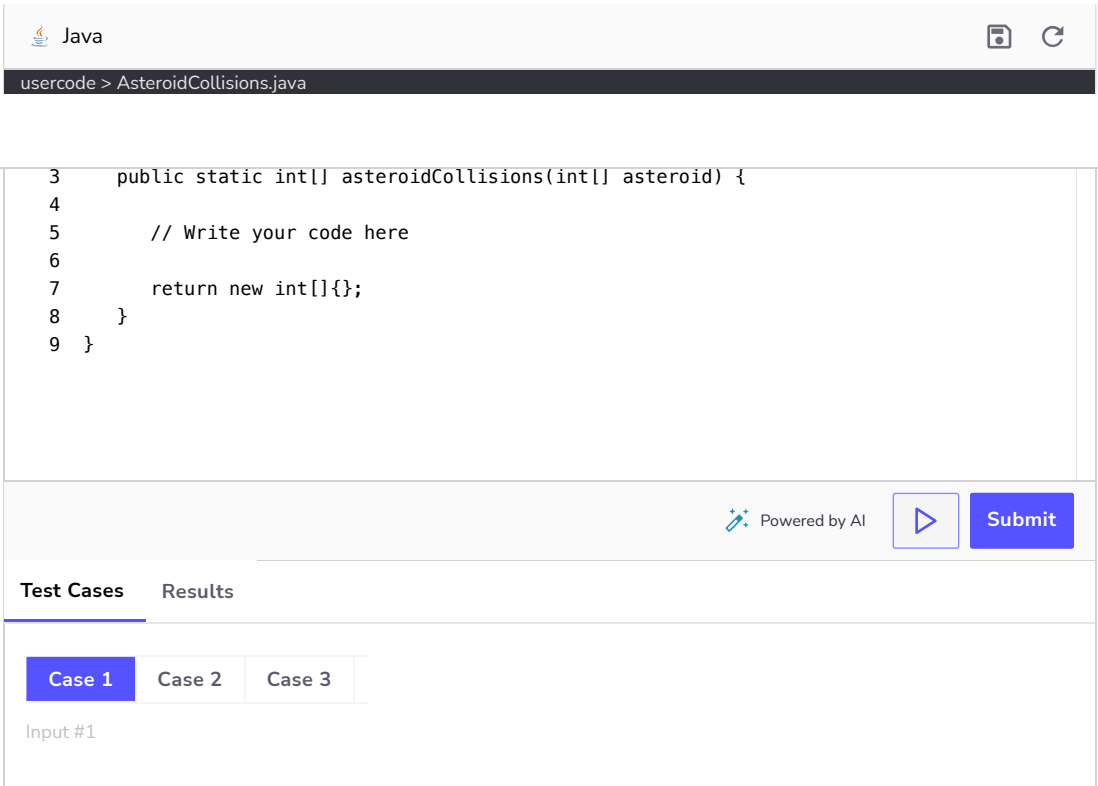
Submit Answer

Question 1 of 2
0 attempted

Reset Quiz

Try it yourself

Implement your solution in the following coding playground:



[1,2,3,4,5,6]

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Mark as Completed