Sum of Three Values

Try to solve the Sum of Three Values problem.

We'll cover the following

Statement

Given an array of integers, `nums`, and an integer value, `target`, determine if there are any three integers in `nums` whose sum is equal to the `target`, that is, `nums[i] + nums[j] + nums[k] == target`. Return TRUE if three such integers exist in the array. Otherwise, return FALSE.

> **Note:** A valid triplet consists of elements with *distinct* indexes. This means, for the triplet `nums[i]`, `nums[j]`, and `nums[k]`, $i \neq j$, $i \neq k$ and $j \neq k$.

Constraints:

- $3 \leq$ `nums.length` ≤ 1000
- $-10^3 \leq$ `nums[i]` $\leq 10^3$
- $-10^3 \leq$ `target` $\leq 10^3$

Examples

Sample example 1

Input

target	20

nums	3	7	1	2	8	4	5

Output

result	True

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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 should be the output if the following set of inputs is provided?

nums = [2, 3, 1]

target = 6

A) True

B) False

Submit Answer

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Reset Quiz

Figure it out!

We have a game for you to play. Rearrange the logical building blocks to develop a clearer understanding of how to solve this problem.

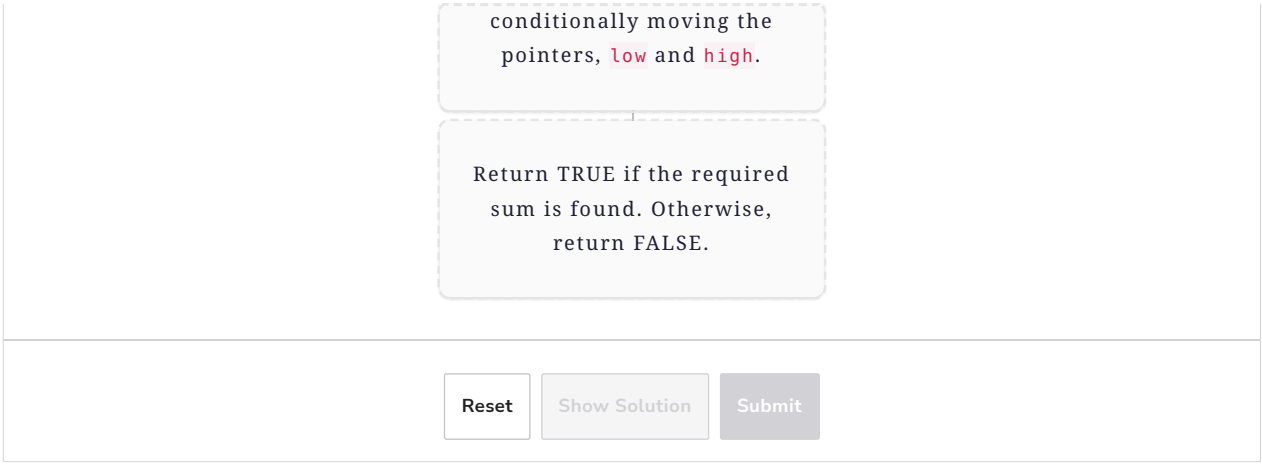
Drag and drop the cards to rearrange them in the correct sequence.

Sort the input array in ascending order.

Iterate over the entire sorted array to find the triplet whose sum is equal to the target.

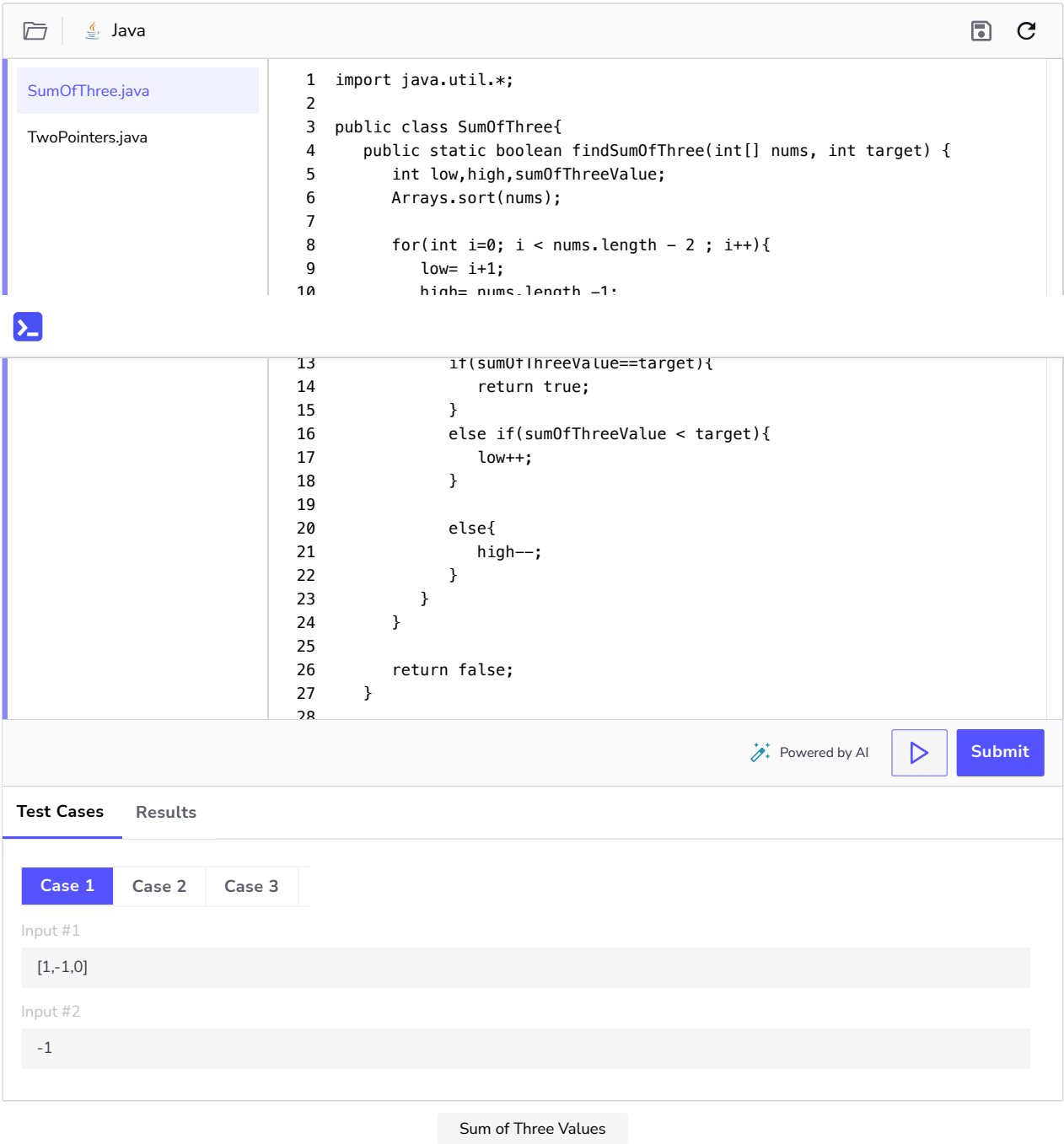
In each iteration, make a triplet by storing the current array element and the other two elements using two pointers (`low` and `high`), and calculate their sum.

Adjust the calculated sum value, until it becomes equal to the target value, by



Try it yourself

Implement your solution in `SumOfThree.java` in the following coding playground. We have provided a useful code template in the other file that you may build on to solve this problem.



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