



Ask a Question



3Sum

Try to solve the 3Sum problem.

We'll cover the following



- Statement
- Examples
- Understand the problem
- Figure it out!
- Try it yourself

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:

- $3 \leq \text{nums.length} \leq 500$
- $-10^3 \leq \text{nums}[i] \leq 10^3$
- $-10^3 \leq \text{target} \leq 10^3$

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:

Sum of Three Values

1

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

`nums = [2, 3, 1]`

`target = 6`

A) True

B) False



Reset QuizQuestion 1 of 4
0 attemptedSubmit Answer

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.

Sequence - Vertical

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

0

Sort the input array in ascending order.

1

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

2

Adjust the calculated sum value, until it becomes equal to the target value, by conditionally moving the pointers, **low** and **high**.



3

Return TRUE if the required sum is found. Otherwise, return FALSE.

4

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.

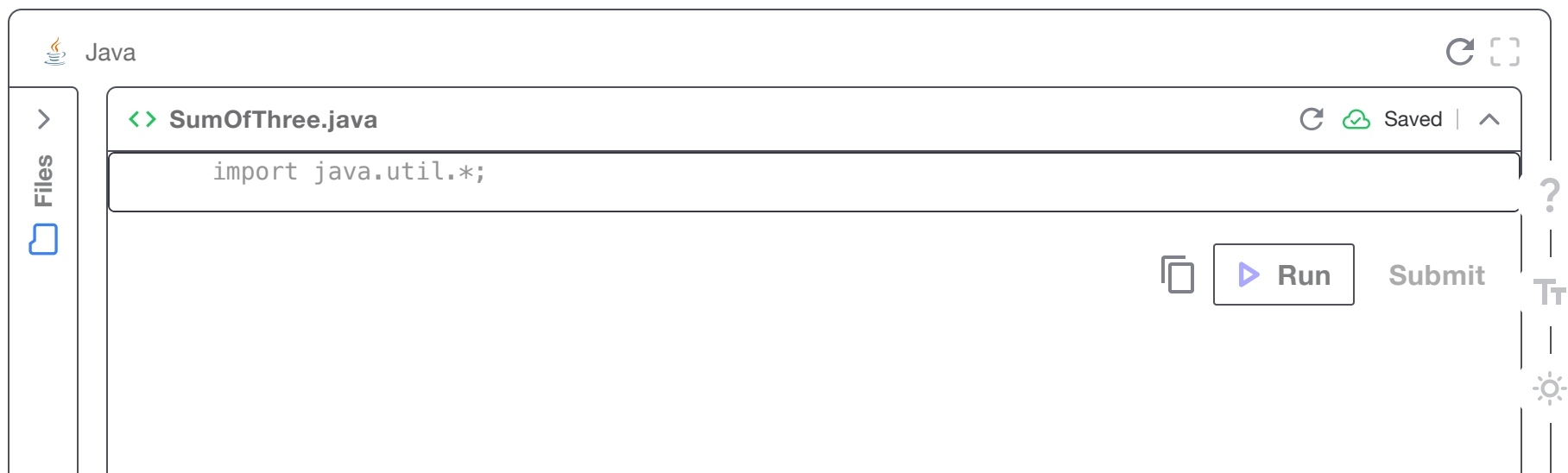
 Reset

Show Solution

Submit

Try it yourself

Implement your solution in `SumOfThree.java` in the following coding playground. The supporting code template provided in `TwoPointers.java` is meant to assist in developing your solution to the problem.



Java

SumOfThree.java

```
import java.util.*;
```

Run Submit



3Sum

...

**Test Cases****Results****Code Feedback**

BETA



3Sum

**Back lesson****Mark As Completed****Next**

Solution: Valid Palindrome

Solution: 3Sum



