

Given an array **arr** of **N** integers, write a function that returns true if there is a triplet (a, b, c) that satisfies $a^2 + b^2 = c^2$, otherwise false.

Example 1:

Input:

N = 5

Arr[] = {3, 2, 4, 6, 5}

Output: Yes

Explanation: a=3, b=4, and c=5 forms a pythagorean triplet.

Example 2:

Input:

N = 3

Arr[] = {3, 8, 5}

Output: No

Explanation: No such triplet possible.

Your Task:

Complete the function **checkTriplet()** which takes an array **arr**, single integer **n**, as input parameters and returns boolean denoting answer to the problem. You don't to print answer or take inputs.

Note: The driver will print "Yes" or "No" instead of boolean.

Expected Time Complexity: $O(\max(\text{Arr}[i])^2)$

Expected Auxiliary Space: $O(\max(\text{Arr}[i]))$

Constraints:

$1 \leq N \leq 10^7$

$1 \leq \text{Arr}[i] \leq 1000$