https://course.acciojob.com/idle?question=69903307-ad1f-4d5b-9777-42f4ee79c8ba

- EASY
- Max Score: 30 Points

Accio Triangle

Harsh has an array ARR of length N. He wants to know if it is possible to form at least one Accio triangle using values of ARR as sides of the triangle. If this is possible, output "YES" otherwise output "NO".

A triangle is called Accio if all three points of the triangle do not lie on the same line.

Input Format

The first line of input contains an integer N denoting the size of the array ARR.

The second line of input contains N space-separated integers denoting the elements of the array.

Output Format

Return the string "YES" if it is possible to form at least one Accio triangle, else return the string "NO".

Example 1

Input

```
5
4 2 1 3 2
```

Output

```
YES
```

Explanation

If we choose the sides as { 2,3,4} or {2,2,1} or {2,2,3} then it is possible to form a Accio triangle.

Example 2

Input

```
3
1 10 100
```

Output

```
NO
```

Explanation

There is no possible combination here to make an Accio Triangle.

Constraints

3 <= N <= 10^5

1 <= ARR[i] <= 10^9

Where ARR[i] denotes the i-th element in the array.

Topic Tags

- **Math**
- **Sorting**

My code

```
// in java
import java.util.*;
```

```
import java.lang.*;
import java.io.*;

public class Main
{
        public static void main (String[] args) throws java.lang.Exception
        {
                //your code here
      Scanner s=new Scanner(System.in);
      int n=s.nextInt();

      int arr[]=new int[n];
      for(int i=0;i<n;i++)
        arr[i]=s.nextInt();
     Arrays.sort(arr);
              for(int i=n-1;i>1;i--)
                    {
                          if(arr[i]<(arr[i-1]+arr[i-2]))
                          {
                                System.out.print("YES");
                                return;
                          }

                    }

              System.out.print("NO");



        }
}
```