Java → Basic syntax and simple programs → Control flow statements → Conditional statement

Conditional statement → Triangle

▪ Medium　◷ 8 minutes　?

Given three natural numbers A, B, C. Determine if a triangle with these sides can exist.

If the triangle exists, output the **YES** string, and otherwise, output **NO**.

A triangle is valid if the sum of its two sides is greater than the third side. If three sides are A, B and C, then three conditions should be met.

```
1. A + B > C
2. A + C > B
3. B + C > A
```

▤ Report a typo

Sample Input 1:

```
3
4
5
```

Sample Output 1:

```
YES
```

⌄ Write a program

Code Editor　　　IDE

```Java
import java.util.Scanner;
class Main {
    public static void main(String[] args) {
        // put your code here
        Scanner scanner = new Scanner(System.in);

        int num1 = scanner.nextInt();
        int num2 = scanner.nextInt();
        int num3 = scanner.nextInt();

        if (num1 + num2 > num3 && num1 + num3 > num2 && num2 + num3 > num1) {
            System.out.println("YES");
        } else {
            System.out.println("NO");
        }
    }
}
```

✔ Correct.

That's an awesome solution! What do you think about showing it off? **Post it to Solutions** so other learners can enjoy it too.

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😍　🙂　😐　🙁　😡

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