## A. Greed

time limit per test: 2 seconds memory limit per test: 256 megabytes

input: standard input output: standard output

Jafar has n cans of cola. Each can is described by two integers: remaining volume of cola  $a_i$  and can's capacity  $b_i$  ( $a_i \le b_i$ ).

Jafar has decided to pour all remaining cola into just 2 cans, determine if he can do this or not!

### Input

The first line of the input contains one integer n ( $2 \le n \le 100\ 000$ ) — number of cola cans.

The second line contains n space-separated integers  $a_1, a_2, ..., a_n$  ( $0 \le a_i \le 10^9$ ) — volume of remaining cola in cans.

The third line contains n space-separated integers that  $b_1, b_2, ..., b_n$  ( $a_i \le b_i \le 10^9$ ) — capacities of the cans.

#### **Output**

Print "YES" (without quotes) if it is possible to pour all remaining cola in 2 cans. Otherwise print "NO" (without quotes).

You can print each letter in any case (upper or lower).

#### **Examples**

```
input

2
3 5
3 6

output

YES
```

```
input

5
0 0 5 0 0
1 1 8 10 5

output

YES
```

# Note

In the first sample, there are already 2 cans, so the answer is  $\ensuremath{\mathtt{"YES"}}.$