

Triangle

Lili just moved into a new apartment! She likes every aspects of her new room, except for the wall. The wall is too plain, so she decided to decorate it with a triangle. Lili decided to use wooden sticks as the material. Lili has N wooden sticks. The i-th stick has length a_i . Lili wants to pick 3 different sticks such that she can form a triangle. Note that she can't modify the length of each stick. Help her determine if she can form a triangle with the given set of sticks!

Format Input

The input can be read from the file testdata.in. The first line contains an integer N, the number of sticks. The next line contains N integers a_i , the length of each stick.

Format Output

Output "YES" if she can form a triangle with the given set of sticks or "NO" otherwise.

Constraints

- 3 < N < 50
- $1 \le a_i \le 10^{12}$

Sample Input 1 (testdata.in)

3 1 2 3

Sample Output 1 (standard output)

NO

Sample Input 2 (testdata.in)

5 1 3 5 2 4

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Sample Output 2 (standard output)

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Explanation

On the second sample, Lili can use sticks of length 3, 4, and 5 to form a triangle.

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Triangle

Lili baru saja pindah ke pindah ke apartemen baru! Dia menyukai setiap aspek dari ruangan barunya, kecuali dindingnya. Dinding barunya terlalu polos, jadi dia memutuskan untuk mendekorasinya dengan sebuah segitiga. Lili memutuskan untuk memakai batangan kayu kecil sebagai bahan dasarnya. Dia memiliki N batang kayu. Batangan ke-i memiliki panjang a_i . Lili akan mengambil 3 batangan berbeda untuk membentuk sebuah segitiga. Dia tidak dapat mengubah panjang dari tiap batangannya. Bantulah Lili menentukan apakah dia dapat membentuk sebuah segitiga dengan batangan yang dimiliki!

Format Input

Masukan dapat dibaca pada file testdata.in. Baris pertama pada inputan terdiri dari sebuah bilangan bulat N, jumlah batangan kayu. Pada baris selanjutnya terdapat N bilangan bulat a_i , panjang dari tiap batangan.

Format Output

Keluarkan "YES" jika dia dapat membentuk sebuah segitiga dari batangan yang diberikan atau "NO" jika dia tidak dapat membentuknya.

Constraints

- $1 \le N \le 50$
- $1 \le a_i \le 10^{12}$

Sample Input 1 (testdata.in)

3 1 2 3

Sample Output 1 (standard output)

NO

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Sample Input 2 (testdata.in)

5

1 3 5 2 4

Sample Output 2 (standard output)

YES

Explanation

Pada sampel kasus kedua, Lili dapat menggunakan batangan kayu dengan panjang 3, 4, dan 5 untuk membentuk sebuah segitiga.



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