Polygon

Input file:	`standard input`
Output file:	`standard output`
Time limit:	2 seconds
Memory limit:	64 megabytes

Marth was out in the woods when he found n sticks lying around. As Marth is a weird guy, he tried making polygon from these sticks, but failed terribly. Now he wonders if it is even possible making a polygon using any subset of given sticks. Help him determine that.

Input

- First line of input contains an integer T. $(1 \leq T \leq 100)$.
- T test cases follow. Each test case contains 2 lines.
- First line of a test case contains an integer n. $(1 \leq n \leq 1000)$
- Second line of a test case contains n space separated integers. $(1 \leq A_i \leq 10^18)$

Output

For each test case output "YES" (without quotes) if it is possible to make a polygon, otherwise output "NO".

Example

standard input	standard output
1 5 8 2 33 72 211	NO