Thief Tower

Input file:	`standard input`
Output file:	`standard output`
Time limit:	1 second
Memory limit:	256 megabytes

The opportunistic Cyber Criminals are planning to loot a skyscraper. They spot an open window, but it's high off the ground and the criminals lack climbing abilities. If all N criminals climbed on each other's shoulders, they could reach the window. Each criminal is labelled 1 to N, and the ith criminal has a strength S_i, meaning (s)he can hold the weight of S_i criminals. If a criminal can't support the weight of those above, the human tower will collapse. Given the criminals' strength values, determine whether or not they can reach the window.

Input

Line 1: N
Line 2: N space-separated integers S_i

Output

Line 1: COLLAPSE or NO COLLAPSE

Examples

standard input	standard output
4 2 0 1 2	COLLAPSE
4 2 4 3 0	NO COLLAPSE

Note

$1 \leq N \leq 1,000$
$0 \leq S_i \leq 1,000$