

## Problem D. Composite Sequence

Input file: *standard input*  
Output file: *standard output*  
Time limit: 1 second  
Memory limit: 256 mebibytes

A sequence  $S$  of positive integers is a *composite sequence* if and only if there is a non-empty subsequence  $T$  of  $S$  such that the sum of all integers in  $T$  is a composite number.

Given  $S$ , your task is to check whether  $S$  is a composite sequence.

Note that 1 is not a composite number.

Recall that  $T$  is a subsequence of  $S$  if and only if we can obtain  $T$  by removing some elements of  $S$  (possibly none or all).

### Input

The first line contains a single integer  $n$  ( $1 \leq n \leq 10^5$ ), the size of  $S$ .

The second line contains  $n$  integers  $S_1, S_2, \dots, S_n$ : the elements of  $S$  ( $1 \leq S_i \leq 10^9$ ).

### Output

If  $S$  is a composite sequence, output “Yes”. Otherwise, output “No”.

### Examples

standard input	standard output
2 5 7	Yes
1 97	No