

## Subset Sum

Given an array of integers and a target sum, find if there exists a subset of the array elements that sums up to the target.

Input format:

The input consists of multiple test cases. Each test case starts with an integer  $n$  ( $1 \leq n \leq 20$ ) representing the number of elements in the array, the next line contains  $n$  integers representing the array elements. The last contains an integer target ( $-1000 \leq \text{target} \leq 1000$ ).

Output format:

For each test case, print "Yes" if there exists a subset of the array elements that sums up to the target; otherwise, print "No".

Time limit: 2 secs (Be careful about the time limit for this problem! A brute force solution will exceed the time limit).

Example:

Input:

2

4

1 2 3 4

5

3

7 15 10

13

Output:

Yes

No