

[LAB3_2] A prime number is defined as a natural number greater than 1 that has only divisible by 1 and itself, without any other positive divisors. Develop a C program to check if a given integer is a prime number. For instance, 53 is a prime, whereas 12 is not.

Input

First Line: **N** denotes the number of integers with the range being $1 \leq N \leq 50$.

Next line consists of a list of N positive integers, separating a white space.

Output

N lines indicating the outcome of the prime number test. For each line, 'yes' should be printed if the number is prime; otherwise print 'no'.

Input sample	Output sample
2	no
12 5	yes
4	no
30 13 15 17	yes
	no
	yes