Given a set of sticks of various lengths, is it possible to join them end-to-end to form a square?

## Input

The first line of input contains $N$, the number of test cases. Each test case begins with an integer $4 \leq M \leq 20$, the number of sticks. $M$ integers follow; each gives the length of a stick - an integer between 1 and 10,000.

## Output



For each case, output a line containing 'yes' if is is possible to form a square; otherwise output 'no'.

## Sample Input

3
41111
51020304050
817264435

## Sample Output

yes
no
yes

