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# Divide the Piles



? Ask Doubt

Time-Limit: 1 sec    Score: 100.00/100    Difficulty :

Memory: 256 MB    Accepted Submissions: 100 Relevant For:

AZ-201

## Description

There are  $N$  piles of stones in front of you.  $i$ th pile contains  $A_i$  number of stones.  
You want to find whether it is possible to split each pile into 1 or more piles of  $X$  ( $\geq 2$ ) stones such that each splitted-pile has exactly  $X$  stones.  
Note that  $X$  should be the same for each pile.

## Input Format

The first line contains  $T$  ( $1 \leq T \leq 100000$ ), the number of test cases. The description of each test case is as follows:  
The first line contains  $N$ , the number of piles ( $1 \leq N \leq 100000$ ).  
The second line contains  $N$  space-separated positive integers  $A_1, A_2, \dots, A_N$  ( $2 \leq A_i \leq 10^9$ ).  
It is guaranteed that sum of  $N$  over all test cases doesn't exceed  $10^6$ .

## Output Format

For each test case, print "Yes" (without quotes) if it is possible to split. Otherwise, print "No" (without quotes).

## Sample Input 1

Copy

```
2
5
2 2 6 8 12
4
2 6 3 8
```

## Sample Output 1

Copy

```
Yes
No
```

## Note

**Explanation 1:**  
For  $X = 2$ , you can divide each pile into smaller piles of size 2.

**Explanation 2:**  
It is not possible to divide piles into smaller piles with size  $\geq 2$ .

C++14[GCC] ▾



Submit

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Typesetting math: 100%