时间限制：C/C++/Rust/Pascal 2秒，其他语言4秒
空间限制：C/C++/Rust/Pascal 512 M，其他语言1024 M
Special Judge, 64bit IO Format: %lld

题目描述

Yuki gives you a sequence of positive integers $a_1, \ldots, a_n$ of length n, you can perform the following two operations any number of times:

- Choose positive integers i, j, d such that $1 \leq i < j \leq n$ and $d \mid a_i, d \mid a_j$, then update $a_i \leftarrow \frac{a_i}{d}$ while $a_j \leftarrow \frac{a_j}{d}$;
- Choose positive integers i, j, d such that $1 \leq i < j \leq n$, then update $a_i \leftarrow a_i \cdot d$ while $a_j \leftarrow a_j \cdot d$.

Determine whether it is possible to make $a_1 = a_2 = \ldots = a_n$ after several operations.

输入描述:

Each test contains multiple test cases. The first line of input contains a single integer t ($1 \leq t \leq 10^5$) — the number of test cases. The description of the test cases follows.

The first line contains an integer n ($1 \leq n \leq 10^6$), representing the length of the sequence.

The second line contains n integers $a_1, \ldots, a_n$ ($1 \leq a_i \leq 5 \cdot 10^6$), describing the given sequence.

It is guaranteed that the sum of n across all test cases does not exceed $2 \cdot 10^6$.

输出描述:

For each test case, print "YES" (without quotes) if it's possible to make all elements in a equal after several operations, and "NO" (without quotes) otherwise.

You can output the answer in any case (upper or lower). For example, the strings "yEs", "yes", "Yes", and "YES" will be recognized as positive responses.

示例1

输入 复制

```
6
1
6
2
```

C++（clang++18）

1

ACM模
请通过
入输出
出描述

运行结果 自测