F D05 - GCD Max

Given an array a[N], write a program that prints the maximum GCD (Greatest Common Divisor) of any subset of atleast size 2 the array.

GCD of two or more than two numbers is the biggest number that divides all of the given numbers.

Input Format

First line contains a number N, size of the array. Next N lines contain one integer each.

Constraints

1 <= N <= 1000 1 <= A[i] <= 1000

Output Format

Print the maximum possible GCD of any subset of size atleast 2 or print -1 if there is no such subset.

Sample Input 0

```
7
6
12
24
3
15
36
10
```

Sample Output 0

```
12
```

Explanation 0

12 is the greatest GCD possible by considering the subset {12,24,36}.

Current Buffer (saved locally, editable) C++14

```
1  #include <cmath>
2  #include <cstdio>
3  #include <vector>
4  #include <iostream>
5  #include <algorithm>
6  using namespace std;
7
```

```c
int main() {
    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}
```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code