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Equal Array(G50)

Problem

Submissions

Leaderboard

Sumita is playing with a Array A of size N. she wants to make all the values of A to be equal. she can multiply any number of the values in the array any number of times by X, Y and Z. Your task is to tell her whether she can do it or not. Print "She can" if she can do it else print "She can't" without ""

Input Format

1. First line of the input will contain T (No. of test cases).
2. For each test case, first line will contain four space separated integers denoting N, X, Y and Z.
3. Then next line will contain N space separated integers of A

Constraints

1. $1 \leq T \leq 5$
2. $2 \leq N \leq 10^5$

$$3. 1 \leq A_i \leq 10^9$$

Output Format

1. For every test case, print the required answer in a new line.

Sample Input 0

```
2
2 2 2 2
2 4
3 2 3 2
2 6 7
```

Sample Output 0

```
She can
She can't
```

Explanation 0

- Test case #1: Multiply first value by 2.
- Test case #2: Not possible.



[f](#) [t](#) [in](#)

Contest ends in 27 minutes

Submissions: [3](#)

Max Score: 20

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C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
6 using namespace std;
7
8
9 int main() {
10     int t;cin>>t;
11
12     while(t-->0)
13     {
14
15         int n,i,y,x,z,f=0;
16         cin>>n>>x>>y>>z;
17         long int a[n];
18         for(i=0;i<n;i++)
19         {
20
21             cin>>a[i];
22             while(a[i]%x==0)a[i]/=x;
23             while(a[i]%y==0)a[i]/=y;
24             while(a[i]%z==0)a[i]/=z;
25             if(i>0)
26             {
27
```

```
28         if(a[i]!=a[i-1])
29             {f=1;break;}
30
31     }
32
33 }
34
35 if(f==1) cout<<"She can't";
36 else cout<<"She can";
37
38 cout<<"\n";
39
40 }
41 return 0;
42 }
43
```

Line: 1 Col: 1

[Upload Code as File](#)

Test against custom input

Run Code

Submit Code

Testcase 0

Congratulations, you passed the sample test case.

Click the **Submit Code** button to run your code against all the test cases.

Input (stdin)

```
2
2 2 2 2
```

```
2 4
3 2 3 2
2 6 7
```

Your Output (stdout)

```
She can
She can't
```

Expected Output

```
She can
She can't
```

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