## Problem G. Remove the Prime

| Input file: | standard input |
| :--- | :--- |
| Output file: | standard output |
| Time limit: | 5 seconds |
| Memory limit: | 256 mebibytes |

Two players play a game using an array of positive integers. They make alternating moves, the player who cannot make a move loses. In one move you have to choose a prime number $p$ and a non-empty segment $[l ; r]$ of the array such that all numbers in this segment are divisible by $p$, and then remove all factors $p$ from each of them. Removing all factors means that we take a number and divide it by $p$ while it is divisible.

Determine who wins if both players play optimally.

## Input

The first line contains one integer $n(1 \leq n \leq 1000)$ - the size of array.
The second line contains the array of integers $a_{1}, a_{2}, \ldots, a_{n}$ itself $\left(1 \leq a_{i} \leq 10^{18}\right)$.

## Output

Print "First" (without quotes) if first player wins and "Second" (without quotes) otherwise.

## Examples

| standard input | standard output |
| :---: | :---: |
| 3 | First |
| 284 |  |
| 3 | Second |
| 2123 |  |

