Problem I
Interview Question
Time limit: 1 second

Fizz Buzz is a party game that is often used as a programming exercise in job interviews. In the game, there are two positive integers a and b, and the game consists of counting up through the positive integers, replacing any number by `Fizz` if it is a multiple of a, by `Buzz` if it is a multiple of b, and by `FizzBuzz` if it is a multiple of both a and b. The most common form of the game has $a = 3$ and $b = 5$, but other parameters are allowed.

Your task here is to solve the reverse problem: given a transcript of part of the game (not necessarily starting at 1), find possible values of a and b that could have been used to generate it.



Fizz Buzz implemented in Hexagony.
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Figure I.1 shows some sample sequences for various values of a and b.

$a = 3, b = 5$: `1 2 Fizz 4 Buzz Fizz 7 8 Fizz Buzz 11 Fizz 13 14 FizzBuzz`
$a = 6, b = 2$: `1 Buzz 3 Buzz 5 FizzBuzz 7 Buzz 9 Buzz 11 FizzBuzz 13`
$a = 4, b = 4$: `1 2 3 FizzBuzz 5 6 7 FizzBuzz 9 10 11 FizzBuzz 13 14`

Figure I.1: Example sequences for *Fizz Buzz*.

Input

The input consists of:

- One line with two integers c and d ($1 \leq c \leq d \leq 10^5$), indicating that your transcript starts at c and ends at d.
- One line with $d - c + 1$ integers and strings, the contents of the transcript.

It is guaranteed that the transcript is valid for some integers a and b with $1 \leq a, b \leq 10^6$, according to the rules laid out above.

Output

Output two positive integers a and b ($1 \leq a, b \leq 10^6$) that are consistent with the given transcript.

If there are multiple valid solutions, you may output any one of them.

Sample Input 1	Sample Output 1
`7 11` `7 8 Fizz Buzz 11`	`3 5`

Sample Input 2	Sample Output 2
`49999 50002` `49999 FizzBuzz 50001 Fizz`	`2 125`

Sample Input 3	Sample Output 3
8 11 Buzz Buzz FizzBuzz Buzz	10 1

Sample Input 4	Sample Output 4
10 15 10 11 12 13 14 15	8 23