## I Interview Question

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.


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 $d\left(1 \leq c \leq d \leq 10^{5}\right)$, 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 $b\left(1 \leq a, b \leq 10^{6}\right)$ that are consistent with the given transcript.

If there are multiple valid solutions, you may output any one of them.
Sample Input $1 \quad$ Sample Output 1

| 7 | 11 |  |
| :--- | :--- | :--- |
| 7 | 8 Fizz Buzz 11 | 35 |


| Sample Input 2 | Sample Output 2 |
| :--- | :--- |
| 4999950002 | 2125 |
| 49999 FizzBuzz 50001 Fizz |  |

Sample Input 3 Sample Output 3

| 8 Buzz Buzz FizzBuzz Buzz | 101 |
| :--- | :--- |

Sample Input 4
Sample Output 4

| 10 | 15 |  |  |  |  | 8 | 23 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 10 | 11 | 12 | 13 | 14 | 15 |  |  |

