

Problem B: Fizz or Buzz, Cuzz

Filename: *fizzbuzz*

Time limit: *1 second*

Points: **5**

Balki wants to get his Cousin Larry (Cuzz) a job. To make sure no nepotism is in play, Cuzz has to pass the coding interview so the other employees don't suspect any foul play. Unfortunately, the regular Fizz Buzz problem is too difficult for Cuzz. In particular, he has trouble if he has to output both Fizz and Buzz for some input values.

You've decided to modify the classic problem as follows:

Given a positive integer n , as input, do the following:

If n is divisible by a positive integer f , output "FIZZ."

Otherwise, if n isn't divisible by f , but n is divisible by a positive integer, b , output "BUZZ"

If n isn't divisible by either f or b , but n is divisible by a positive integer, c , output "CUZZ".

If n isn't divisible by any of those options, output n .

In the classic problem, the interview candidate is given a range of positive integers, s to e , inclusive, and has to output one item per line for each integer in the range using the rules provided above.

The Problem

Given the values of f , b , c , s and e , described above, write out $e - s + 1$ lines, one per each integer in between s and e , inclusive, with the appropriate output values as specified by the adjusted rules to the classic problem above.

The Input

The first line of input will contain a single integer t ($1 \leq t \leq 20$), representing the number of input cases to process.

Each input case will be on a single line with the five integers, f ($2 \leq f \leq 1000$), b ($2 \leq b \leq 1000$), c ($2 \leq c \leq 1000$), s ($1 \leq s \leq 1000$), and e ($s \leq e \leq 1000$), separated by spaces. It is guaranteed that f , b , and c are all distinct.

The Output

For each test case, output $e - s + 1$ lines, one per each integer in between s and e , inclusive, with the appropriate output values as specified by the adjusted rules to the classic problem above.

Sample Input

2
3 5 7 100 112
2 3 4 1 10

Sample Output

BUZZ
101
FIZZ
103
104
FIZZ
106
107
FIZZ
109
BUZZ
FIZZ
CUZZ
1
FIZZ
BUZZ
FIZZ
5
FIZZ
7
FIZZ
BUZZ
FIZZ