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## 1020. Big Integer

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## **Description**

Long long ago, there was a super computer that could deal with VeryLongIntegers(no VeryLongInteger will be negative). Do you know how this computer stores the VeryLongIntegers? This computer has a set of n positive integers: b1,b2,...,bn, which is called a basis for the computer.

The basis satisfies two properties:

- 1) 1 < bi <= 1000 (1 <= i <= n),
- 2)  $gcd(bi,bj) = 1 (1 \le i,j \le n, i \ne j)$ .

Let M = b1\*b2\*...\*bn

Given an integer x, which is nonegative and less than M, the ordered n-tuples (x mod b1, x mod b2, ..., x mod bn), which is called the representation of x, will be put into the computer.

#### Input

The input consists of T test cases. The number of test cases (T) is given in the first line of the input.

Each test case contains three lines.

The first line contains an integer n(<=100).

The second line contains n integers: b1,b2,...,bn, which is the basis of the computer.

The third line contains a single VeryLongInteger x.

Each VeryLongInteger will be 400 or fewer characters in length, and will only contain digits (no VeryLongInteger will be negative).

### **Output**

For each test case, print exactly one line -- the representation of x.

The output format is:(r1,r2,...,rn)

## Sample Input

Сору

```
2
2 3 5
10
2 3 5 7
13
```

# **Sample Output**

Сору

```
(0, 1, 0)
(1, 1, 3, 6)
```

**Problem Source: ZSUACM Team Member** 

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