

Toys

Jojo has N toys. Because he wants to buy new toys and his storage is full, he decided to dispose some of his toys. His toys is numbered from 1 to N. First, he choose 4 number, A, B, C, and D. Then, he will dispose all toys with number multiple of A, B, C, or D. Now he wonders how many toys he threw away. Help him by counting the number of toys he threw away.

Format Input

The first line is an integer T which shows the number of test cases.

For each test case, there will be 1 line consisting of 5 integers N, A, B, C, and D representing the number of toys he had initially and the 4 numbers he chose.

Format Output

For each test case, output 1 line in the form of "Case #X: Y". X is the number of test cases, and Y is the number of toys that Jojo threw away.

Constraints

- $1 \le T \le 100$
- 2 < N, A, B, C, D < 10000

Sample Input 1 (standard input)

1 12 1 2 3 4

Sample Output 1 (standard output)

Case #1: 12

Sample Input 2 (standard input)

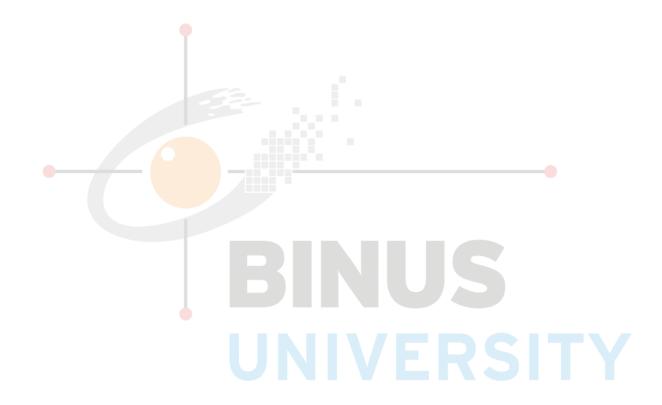
2 100 2 3 5 7 33 4 18 4 2

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Sample Output 2 (standard output)

Case #1: 78 Case #2: 16



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Jojo memiliki N mainan. Karena dia ingin membeli mainan baru dan tempat penyimpanannya sudah penuh, dia memutuskan untuk membuang beberapa mainannya. Mainannya diberi nomor dari 1 sampai N. Pertama, dia memilih 4 angka, A, B, C, dan D. Kemudian, dia akan membuang semua mainan dengan angka yang merupakan kelipatan A, B, C, atau D. Sekarang dia bertanya-tanya berapa banyak mainan yang dia buang. Bantu dia dengan menghitung jumlah mainan yang dia buang.

Format Input

Baris pertama adalah sebuah integer T yang menyatakan banyak kasus uji. Untuk setiap kasus uji, akan ada 1 baris yang terdiri dari 5 angka N, A, B, C, dan D yang merepresentasikan banyaknya mainan Jojo mula-mula, dan 4 angka yang dia pilih.

Format Output

Untuk setiap kasus uji, output 1 baris dengan format "Case #X: Y". X adalah nomor kasus uji, dan Y adalah banyaknya mainan yang Jojo buang.

Constraints

- $1 \le T \le 100$
- $2 \le N, A, B, C, D \le 10000$

Sample Input 1 (standard input)

1 12 1 2 3 4

Sample Output 1 (standard output)

Case #1: 12

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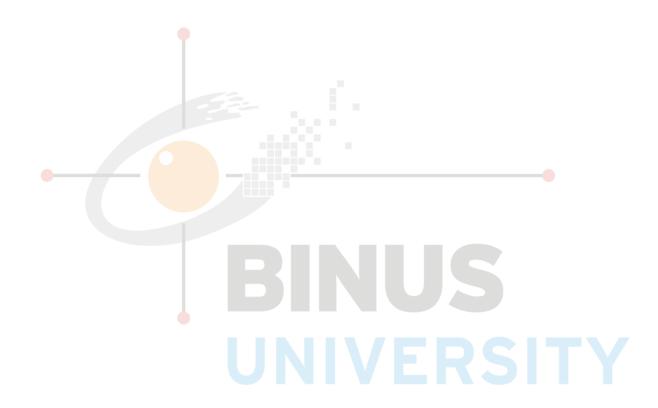


Sample Input 2 (standard input)

2 100 2 3 5 7 33 4 18 4 2

Sample Output 2 (standard output)

Case #1: 78 Case #2: 16



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