

Sum Difference

Jojo has an integer K and an array that consists of N integers, $a_1, a_2, ..., a_N$. He asks you to calculate the difference between the sum of integers with multiple of K index and the sum of integers with not a multiple of K index. Note that the index of the array starts with 1.

Format Input

The first line consists of an integer T representing the number of test cases. For each test case, there will be 2 lines. The first line consists of two integers, N and K. The second line consists of N integers, $a_1, a_2, ..., a_N$.

Format Output

For each test case output "Case #X: Y". X is the test case number and Y is the difference between the sum of integers with multiple of K index and the sum of integers with not a multiple of K index. Note that in this context, the difference is never a negative number.

Constraints

- 1 < T < 100
- $2 \le K \le N \le 1500$
- $1 \le a_i \le 10^{16}$

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Sample Input (standard input)

```
1
6 3
1 2 3 4 5 6
```

Sample Output (standard output)

Case #1: 3

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Sum Difference

Jojo memiliki sebuah bilangan bulat K dan sebuah array yang terdiri dari N bilangan bulat, $a_1, a_2, ..., a_N$. Ia meminta anda untuk menghitung selisih jumlah bilangan yang memiliki index kelipatan K dan jumlah bilangan yang memiliki index bukan kelipatan K. Perlu diperhatikan bahwa index array dimulai dari 1.

Format Input

Baris pertama terdiri dari sebuah bilangan bulat T yang merepresentasikan banyaknya kasus uji.

Untuk setiap kasus uji, akan ada 2 baris. Baris pertama terdiri dari dua bilangan bulat, N dan K. Baris kedua terdiri dari N bilangan bulat, $a_1, a_2, ..., a_N$.

Format Output

Untuk setiap kasus uji outputkan "Case #X: Y". X adalah nomor kasus uji dan Y adalah selisih jumlah bilangan yang memiliki index kelipatan K dan jumlah bilangan yang memiliki index bukan kelipatan K. Perlu diperhatikan bahwa dalam konteks ini, selisihnya tidak pernah sebuah bilangan negatif.

Constraints

- 1 < T < 100
- $2 \le K \le N \le 1500$
- $1 \le a_i \le 10^{16}$

BINUS

Sample Input (standard input)

```
1
6 3
1 2 3 4 5 6
```

Sample Output (standard output)

Case #1: 3

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