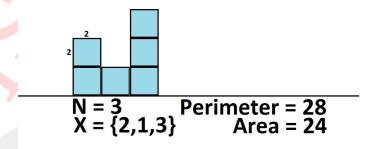


## Ice

Jojo is playing with ice cubes. He puts some ice cube sized  $2 \times 2 \times 2$  on a table. He wanted to make N stacks adjecent to each other stacks with  $X_i$  cubes for the  $i^{th}$  stack. Jojo is curious how much is the perimeter and area of the stacks given Jojo is looking at the stacks from the front in 2-dimentional form. Help Jojo calculate the perimeter and the area.



### Format Input

The input will consist of several lines of input in "testdata.in" file. First consists of T, the number of test cases. For each testcase consists of integer N, the number of stacks. The next line consists of the N integer, the number  $X_i$  for the  $i^{th}$  stack.

## Format Output

Output should be expressed in format "Case #X:  $Y_1$   $Y_2$ " - X is the number of the test case, and followed by  $Y_1$  and  $Y_2$  - The perimeter and the area of the test case.

#### Constraints

- $1 \le T \le 100$
- $1 \le N \le 100$
- $1 \le X_i \le 100$

### Sample Input (testdata.in)

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1	
3	
2 1 3	

# Sample Output (standard output)

Case #1: 28 24

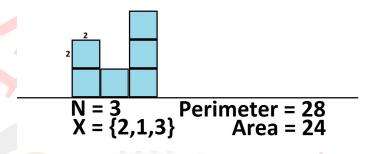


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#### Ice

Jojo sedang bermain dengan balok es. Ia meletakkan sejumlah balok es berukuran  $2 \times 2 \times 2$  pada sebuah meja. Ia ingin membuat N buah tumpukan bersebelahan dengan  $X_i$  buah balok disusun pada tumpukan ke i. Jojo sangat penasaran berapa keliling dan luas dari tumpukan tersebut saat dilihat dari sisi depan pada bentuk 2 dimensi. Bantulah Jojo menghitung keliling dan luasnya.



### Format Input

Input terdiri dari beberapa baris dalam file "testdata.in". Pada baris pertama terdapat T, jumlah  $test\ case$ . Untuk setiap  $test\ case$ , terdapat angka bulat N, jumlah tumpukan yang akan dibuat. Baris berikutnya terdapat N buah angka bulat  $X_i$  yang menyatakan jumlah balok es pada tumpukan ke i.

## Format Output

Output yang dikeluarkan dalam format "Case #X:  $Y_1 Y_2$ " - X merupakan nomor test case dan akan diikuti oleh  $Y_1$  dan  $Y_2$  - keliling dan luas hasil dari setiap test case.

#### Constraints

- $1 \le T \le 100$
- $1 \le N \le 100$
- $1 \le X_i \le 100$

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# Sample Input (testdata.in)

1 3 2 1 3

# Sample Output (standard output)

Case #1: 28 24



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