

dorchard



An animal welfare inspector must visit all zoos to see if they have enough space for the animals they house. Because there are many zoos, he will first do a quick check. In doing so, he will check whether the total minimum space required for all animals together is smaller or equal to the surface area of the zoo. To simplify his work a bit, you are going to write a program that will calculate from the minimum space for each animal what the minimum total space is for all animals.

Input

The first line contains the number of test cases (a strict positive integer: $1 \leq t \leq 100$). For each test case, there is first a line with the number of animals (a strictly positive integer: $1 \leq B \leq 100$). Then follows 1 line with B positive integers representing the minimum spaces per animal ($1 \leq B \leq 10000$), each separated by 1 space.

sample input

```
2
3
14 5 283
6
54 62 800 10000 4 99
```

Export

Per test case you must print one line with the total minimum space for all animals of that zoo. This must be preceded by the sequence number of the test case followed by one space.

sample output

```
1 302
2 11019
```
