

Lili and Mean

Jojo and Lili has just learned statistics in their school. However, Lili went to the toilet for far too long when the teacher was explaining the concept of mean. As Lili doesn't want to get bad grades, she asked Jojo, who was fortunately awake when the teacher was explaining, to explain it to her. Jojo explained that mean is the average value of a list. He then gave Lili a list of students each with their own ID, name and score in the final test and tasked her to list all the IDs and names of all students who scored higher than or equal to the mean score. As Lili is still confused, she has asked you to help him finish this task.

Format Input

A single line with an integer N denoting the amount of items followed by 3N lines where every 3 lines contains the information of the ith student starting with the ID, followed by S, the name of the student, and lastly P, the final test score of the student.

Format Output

The IDs and names of students that scored higher than or equal to the mean score in the order of input.

Constraints

- $\bullet \ 1 \leq N \leq 5*10^4$
- The ID of an item is a string containing 10 numerical digits
- $1 \le |S| \le 15$
- 0 < P < 100

Sample Input 1

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```
2301905011
Bibi
95
```

Sample Output 1

```
2301905000 Lili
2301905011 Bibi
```

Sample Input 2

```
4

1111111111

Jo jo

100

222222222

Li li

65

3333333333

Bi bi

85

4444444444

Jo li

70
```

Sample Output 2

111111111 Jo jo 333333333 Bi bi

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Jojo dan Lili baru saja mempelajari materi statistika di sekolah. Namun, Lili terlalu lama menghabiskan waktu di toilet ketika pak guru sedang menerangkan konsep mean. Karena Lili tidak ingin nilai ujiannya jelek, Lili pun bertanya pada Jojo. Jojo menjelaskan bahwa mean adalah nilai rata-rata dari sebuah kumpulan data. Untuk memperjelas penjelasannya, Jojo memberikan Lili sebuah daftar siswa lengkap dengan ID, nama dan juga nilainya. Jojo menugaskan Lili untuk menuliskan semua siswa yang memiliki nilai diatas atau sama dengan mean. Karena Lili masih agak bingung, Ia pun meminta bantuanmu untuk menyelesaikan tugas ini.

Format Input

Satu baris berisi bilangan bulat N yang menyatakan jumlah siswa diikuti oleh 3N buah baris dimana setiap 3 baris berisikan informasi mengenai siswa ke-i dimulai dari ID, diikuti oleh S, yang menyatakan nama siswa, lalu terakhir adalah P, nilai dari siswa tersebut.

Format Output

ID dan nama dari siswa yang memiliki nilai diatas atau sama dengan mean sesuai dengan urutan input.

Constraints

- $1 < N < 5 * 10^4$
- ID dari seorang siswa memiliki panjang 10 dan hanya berisikan angka
- $1 \le |S| \le 15$
- 0 < P < 100

Sample Input 1

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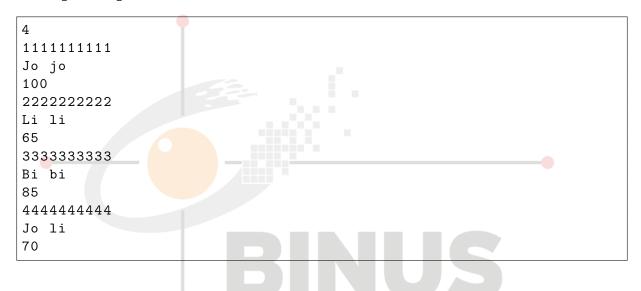


85 2301905011 Bibi 95

Sample Output 1

2301905000 Lili 2301905011 Bibi

Sample Input 2



Sample Output 2

111111111 Jo jo 333333333 Bi bi

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