

Lili and Deadlines

Lili has N assignments that need to be finished. Each assignment is titled S_i and is due in T_i days. Since Lili is a master procrastinator, she wants to submit each assignment exactly on their deadlines. If two assignments have the same deadline, Lili will submit them alphabetically.

As a concerned friend, you need to write a program that will find out the order in which Lili will submit her assignments.

Format Input

The first line of input contains a single integer N, the amount of assignments Lili has to finish.

The next N lines contain a string S_i and an integer T_i , the title of the i-th assignment and its deadline.

Format Output

Output N lines, the titles of Lili's assignments in the order they will be submitted.

Constraints

- 1 < N < 100
- $1 \le |S_i| \le 10$
- $1 \le T_i \le 10^9$
- S_i will consist of lowercase characters only.

Sample Input (standard input)

algebra 7
english 7
algo 3
pdm 5

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Sample Output (standard output)

algo		
pdm		
algebra		
algebra english		



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Lili memiliki N tugas yang harus ia selesaikan. Setiap tugas memiliki judul S_i dan harus dikumpulkan dalam T_i hari. Karena Lili merupakan penunda yang handal, Lili ingin mengumpulkan semua tugas tepat pada deadline mereka. Jika dua tugas memiliki deadline yang sama, Lili akan mengumpulkan mereka berurut secara alfabet.

Sebagai seorang teman yang peduli, kamu harus membuat suatu program yang dapat mencari tahu urutan Lili mengumpulkan tugas-tugasnya.

Format Input

Baris pertama input berisi sebuah angka bulat N, jumlah tugas yang harus Lili selesaikan.

N baris berikutnya berisi sebuah string S_i dan sebuah angka bulat T_i , judul dari tugas ke-i dan deadlinenya.

Format Output

Cetak N baris, yaitu judul dari tugas Lili sesuai dengan urutan pengumpulan Lili.

Constraints

- $1 \le N \le 100$
- $1 \le |S_i| \le 10$
- $1 \le T_i \le 10^9$
- S_i terdiri hanya dari huruf kecil.

Sample Input (standard input)

4 algebra 7 english 7 algo 3 pdm 5

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Sample Output (standard output)

algo		
pdm		
algebra		
algebra english		



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