



北京大学

PEKING UNIVERSITY

JUDGE ONLINE FOR ACM/ICPC



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K Best

Language:

Time Limit: 8000MS

Memory Limit: 65536K

Total Submissions: 14539

Accepted: 3731

Case Time Limit: 2000MS

Special Judge

Description

Demy has n jewels. Each of her jewels has some value v_i and weight w_i .

Since her husband John got broke after recent financial crises, Demy has decided to sell some jewels. She has decided that she would keep k best jewels for herself. She decided to keep such jewels that their specific value is as large as possible. That is, denote the specific value of some set of jewels $S = \{i_1, i_2, \dots, i_k\}$ as

$$s(S) = \frac{\sum_{j=1}^k v_{i_j}}{\sum_{j=1}^k w_{i_j}}.$$

Demy would like to select such k jewels that their specific value is maximal possible. Help her to do so.

Input

The first line of the input file contains n — the number of jewels Demy got, and k — the number of jewels she would like to keep ($1 \leq k \leq n \leq 100\,000$).

The following n lines contain two integer numbers each — v_i and w_i ($0 \leq v_i \leq 10^6$, $1 \leq w_i \leq 10^6$, both the sum of all v_i and the sum of all w_i do not exceed 10^7).

Output

Output k numbers — the numbers of jewels Demy must keep. If there are several solutions, output any one.

Sample Input

```
3 2
1 1
1 2
1 3
```

Sample Output

1 2

Source

[Northeastern Europe 2005](#), Northern Subregion

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