

# K Best

Language: Default

**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 $S = \{i_1, i_2, \ldots, i_k\}$ 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 ($1 \le k \le n \le 100\,000$).

The following $n$ lines contain two integer numbers each — $v_i$ and $w_i$ ($0 \le v_i \le 10^6$, $1 \le w_i \le 10^6$, 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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Home Page Go Back To top