# Offthentic Feed

Problem ID: feed

#### Problem Statement

You are building a new social media platform called **Offthentic**. Users post content continuously, and the platform must display a live feed of posts.

There are n posts. Each post i has three attributes:

- $u_i$  the user ID of the author,
- $t_i$  the timestamp when the post was created (seconds since the start),
- $l_i$  the number of likes the post has.

The feed has the following rules:

- At each second, all posts created up to that time are available.
- The feed displays at most k posts at a time.
- Posts are ranked by:
  - 1. Higher likes  $(l_i)$ ,
  - 2. Later timestamp  $(t_i)$ ,
  - 3. Smaller user ID  $(u_i)$ .
- When a new post enters the feed, it may push out an older one. Once a post leaves the feed, it does not reappear later.

It is guaranteed that no two posts have identical  $(u_i, t_i)$  pairs, so ties are always resolvable.

Your task is to simulate the feed and output the order in which posts first appeared. **Note:** Some posts may never appear if they are always out-ranked.

#### Input

- The first line contains two integers n and k  $(1 \le n, k \le 10^5)$ .
- The next *n* lines each contain three integers  $u_i$ ,  $t_i$ , and  $l_i$  ( $1 \le u_i \le 10^9$ ,  $0 \le t_i \le 10^9$ ,  $0 \le l_i \le 10^5$ ).

### Output

Print the indices of the posts (1-based, in input order) in the order they **first appear** in the feed. If a post never appears, it should not be printed.

## Subtasks

Subtask	Constraints	Points
1	$n \le 100, \ k = 1$	20
2	$n \le 2000, \ k \le 10$	20
3	$n \le 10^5, \ k \le 100$	30
4	No additional constraints	30

## Sample 1

#### Input

5 2

10 1 5

7 2 5

3 2 8

5 3 5

2 5 10

#### Output

1 3 2 4 5

### Explanation

- At t = 1, post 1 appears.
- At t = 2, posts 2 and 3 are available. Post 3 has more likes, so it enters; post 2 also enters while post 1 is pushed out.
- At t = 3, post 4 joins.
- At t = 5, post 5 (10 likes) pushes out post 2.

The order of first appearance is: 1, 3, 2, 4, 5.

## Sample 2

#### Input

4 2

1 1 100

2 2 50

3 3 100

4 4 200

#### Output

1 2 3 4

## Explanation

- At t = 1, post 1 appears.
- At t = 2, post 2 enters with lower likes but fills the empty slot.
- At t = 3, post 3 (likes = 100) replaces post 2 (likes = 50).
- At t = 4, post 4 (likes = 200) pushes out post 1.

Final order: 1, 2, 3, 4. Post 2 never reappears after being pushed out, even though newer posts arrive.