CPB221 Assignment 10

2. The Olympic Ranking

- The Olympic Games do not officially determine the rankings between countries because only participation is important. However, since many people are interested in how well their countries are doing, they are ranking countries unofficially.

- Given the number of gold, silver and bronze medals each country has won, the following rules usually follows to determine which country did better.
  - The country with more gold medals
  - The country with more sum of silver and bronze medals if the number of gold medals is the same
  - The country with more silver medals if the number of gold medals and sum of silver and bronze medals is the same

- Each country is represented by an integer between 1 and N. A country's rank is defined as (number of countries that did better than that country)+1. If two countries have the same number of gold, silver and bronze medals, then both countries have the same number of places. For example, if country 1 gets 1 gold medal and 1 silver medal, country 2 and country 3 both get 1 silver medal, and country 4 does not get a medal, then country 1 gets 1st place , country 2 and 3 will be joint 2nd place, and country 4 will be 4th place. In this case, there is no third place.

- Write a program that receives information on each country's gold, silver, and bronze medals and tells which country has won how many.

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2. The Olympic Ranking (Cont.)

- Input: In the first line, the number of countries N (1 ≤ N ≤ 1,000) and the country K (1 ≤ K ≤ N) for which you want to know the rank are given with a space between them. After that, in each of the N lines, an integer representing each country and the number of gold, silver, and bronze medals that this country won are given with a space in between. The total of all medals is not more than 1,000,000.

- Output: The rank of the country K as a single integer.

```
4 3          4 2          4 3
1 1 2 0      1 3 0 0      1 3 0 2
2 0 1 0      3 0 0 2      2 3 2 0
3 0 1 0      4 0 2 0      3 3 1 1
4 0 0 1      2 0 2 0      4 3 0 3
2            2            3
```