1. **Up-Solve Rank**

You are given three integers ***N***, ***I*** and ***P***, number of students, Identification number and Position ***P***. You are also given details of *N* students ***S1***, ***S2***, …, ***SN***. Each student has ***I***, ***Name***, ***Section*** and ***Rank*** achieved in codechef.

You are allowed to make upgrade or degrade the rank of a student if required (possibly 0). Your task is to change position of a student from current position to position ***P*** arranged by rank of students in non-decreasing order.

Output the changes required in rank of students from its previous position to given position ***P*** (possibly 0). The position of student is counted by their rank in non-decreasing order.

**Constraints:**

* **0 < *N* <= 30**
* **0 < *I* < 10000**
* **0 < *Section* < 100**
* **|*Name*| = 50**
* **0 < *Rank* < 106**

**Input Format:**

Input is given from Standard Input device,

First line will have three integers ***N***, ***I***, ***P***; the number of Students, ID of students and position of student having ID to change from current position to position P.

***N*** consecutive lines of student details, each line will have ***I***, ***Name***, ***Section***, and ***Rank***. Name is two string space separated.

**Output Format**:

For each test case output only one line with ***Formated ID***, ***Name*** and the ***Rank*** ***affected***.

***Formated ID*** is combination of ***branch***, ***Section*** Number and given ***I*** and ***Name*** is printed in Proper format, and integer value affected in the rank.

Note: If there is not way to achieve the position p then print a string “***Not Possible***”.

**Sample Input1**

5 3344 3

4422 ram pratap 18 4

4301 Vishal singh 2 9

33 varsha Rani 6 7

12 harsh Vardhan 20 0

3344 Ramu vardhan 15 8

**Sample Output1**

CSES153344 Ramu Vardhan -2

**Explanation of Sample Input1**

Students details

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 4422 | | ram pratap | | 18 | | 4 | | |  | | --- | | 4301 | | Vishal singh | | 2 | | 9 | | |  | | --- | | 33 | | varsha Rani | | 6 | | 7 | | |  | | --- | | 12 | | harsh Vardhan | | 20 | | 0 | | |  | | --- | | 3344 | | Ramu vardhan | | 15 | | 8 | |

Sort by Rank Value

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 12 | | harsh Vardhan | | 20 | | 0 | | |  | | --- | | 4422 | | ram pratap | | 18 | | 4 | | |  | | --- | | 33 | | varsha Rani | | 6 | | 7 | | |  | | --- | | 3344 | | Ramu vardhan | | 15 | | 8 | | |  | | --- | | 4301 | | Vishal singh | | 2 | | 9 | |

**Identify student by id = 3344**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 12 | | harsh Vardhan | | 20 | | 0 | | |  | | --- | | 4422 | | ram pratap | | 18 | | 4 | | |  | | --- | | 33 | | varsha Rani | | 6 | | 7 | | |  | | --- | | 3344 | | Ramu vardhan | | 15 | | 8 | | |  | | --- | | 4301 | | Vishal singh | | 2 | | 9 | |

The identified student is at 4th position according to rank=8, our purpose is to increase or decrease the student rank so that this student becomes at 3rd position. If we decrease student rank by 2 i.e., rank=8-2= 6 and rearrange students details the same student will be at 3rd position. Difference in old rank=8 and new rank=6 is -2 so answer is -2.

Now, the complete output consists of Formatted ID which is alphanumeric string combination of Brach, section prefixed with character ‘S’, and four digits of id. So student formatted ID= “**CSES153344**”. Name is two strings printed in proper case space separated i.e. “**Ramu Vardhan**” and the affected rank i.e. -**2**. So complete output is **CSES153344 Raj Vardhan -2**.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | 12 | | harsh Vardhan | | 20 | | 0 | | |  | | --- | | 4422 | | ram pratap | | 18 | | 4 | | |  | | --- | | 3344 | | Ramu vardhan | | 15 | | 6 | | |  | | --- | | 33 | | varsha Rani | | 6 | | 7 | | |  | | --- | | 4301 | | Vishal singh | | 2 | | 9 | |

**Sample Input2**

1 1111 2

2200 appu kumar 5 100

**Sample Output2**

Not Possible

**Sample Input3**

2 4 2

4 Raj Vardhan 16 3

5 Sulekha Kumari 20 8

**Sample Output3**

CSES160004 Raj Vardhan 6

**Sample Input4**

2 100 2

7070 Vishnu Raj 11 11

100 Bhuvan kumar 20 20

**Sample Output4**

CSES200100 Bhuvan Kumar 0

1. **Save the Goats**

In Grassland, there are G number of Goats and T number of Tigers.

If the number of Tigers is more or even equal to the number of Goats, the tiger will attack the goats. You visited Grassland for first time and recognize this and being kind to Goats you want to take some action. So, you are given a task to save those Goats.

Print an integer as number of Goats required so that the Goats will not be attacked and will be saved by Tiger.

**Constraints**

* 1≤G≤100
* 1≤T≤100

**Input Format:**

Input is given from Standard Input device

Only one line of input is there having two integers space separated, an integer G, number of Goats and an integer T, number of Tigers.

**Output Format:**

Print an integer, the number of Goats required to save other Goats.

**Sample Input1**

4 5

**Sample Output1**

2

**Sample Input2**

7 6

**Sample Output2**

0

**Sample Input3**

99 90

**Sample Output3**

0

**Sample Input4**

17 60

**Sample Output4**

44