
Judge (2)**P63370_en**

To solve this exercise. use the same definitions of problem P14343.

Write a program that reads the submissions done in the Judge, and prints the following information:

- The exercise with more green submissions (the exercise with the smallest identifier in a event of a tie, “–” if there is not any green submission).
- The exercise with more students that have obtained a green (the exercise with the smallest identifier in a event of a tie, “–” if there is not any student with some green exercise).
- The exercise with more students that have tried to solve it and have only obtained reds (the exercise with the smallest identifier in a event of a tie, “–” if there is not any student with any red exercise).
- The exercise that more different students have tried to solve, with or without success (the exercise with the smallest identifier in a event of a tie, “–” if there is not any submission).
- The exercise of the last submission (“–” if there is not any submission).

Input

Input consists of a natural n , followed by n submissions, each one in a line, with the fields in the same order than in the definition of the type. Suppose that there are, at most, 20 students, 50 exercises, and 1000 submissions.

Output

Your program must print the name of the 5 previously said exercises with the corresponding counters, following the format of the instance.

Observation

This exercise is quite long. To compensate, it is not necessary that the sent solution is particularly efficient.

Sample input 1

```
15
40123456 TIPIC 1000 red
40123456 TIPIC 2000 yellow
40123456 TIPIC 3000 green
77777777 GABY 5100 yellow
11223344 FOFO 2300 yellow
11223344 FOFO 1500 red
40123456 FOFO 5000 green
40123456 FOFO 4000 green
```

```
40123456 FOFO 4400 green
11223344 TIPIC 9600 green
11223344 KITO 9000 yellow
11223344 GABY 8200 red
77777777 KITO 6000 green
77777777 FOFO 7000 green
77777777 TIPIC 8000 green
```

Sample output 1

```
exercise with more green submissions: FOFO (4)
exercise with more green students: TIPIC (3)
exercise with more red students: GABY (1)
exercise that more students have tried: FOFO (3)
exercise of the last submission: TIPIC
```

Sample input 2

```
1
00110011 TIPIC 100 yellow
```

Sample output 2

```
exercise with more green submissions: -
exercise with more green students: -
exercise with more red students: -
exercise that more students have tried: TIPIC (1)
exercise of the last submission: TIPIC
```

Problem information

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