

5286 Head Judge Headache

You are the Head Judge of the ACM Eastern European Regional Programming Contest. The master Judge computer has been infected by computer virus which has formatted the hard disk.

Input

You have only the listing of submitted problems log formatted as follows:

Team_No(≤ 25) *Problem_Letter*(A..G) *Time_of_submission*(h:mm) *Status_of_the_run*(Y/N)

Output

Write a program to compute the final standing by using the following rules:

- Teams are ranked according to the most problems solved.
- Teams who have solved the same number of problems are ranked by least total time.
- The total time is the sum of the time consumed for each problem solved.
- The time consumed for a solved problem is the time elapsed from the beginning of the contest to the submittal of the accepted run plus 20 minutes for each previously rejected run. Further submissions will be ignored.
- There is no time consumed for a problem that is not solved.
- Teams with equal score are assigned equal rank sorted by team number.

Sample Input

```
1 A 0:50 N
3 A 1:12 Y
2 B 1:19 N
1 A 1:20 Y
2 B 1:35 N
1 B 1:36 N
3 B 1:40 Y
3 C 1:41 N
4 A 1:40 Y
```

Sample Output

RANK	TEAM	PRO/SOLVED	TIME
1	3	2	172
2	1	1	100
2	4	1	100
4	2		