# **ICPC** Awards

CPU Time limit: 1 second Memory limit: 512 MB Difficulty: 1.4

Problem ID: icpcawards

The ACM International Collegiate Programming Contest has been held in Vietnam for more than 10 years. The contest is a great chance for the students to meet new friends, broaden their knowledge and of course, win prizes.

**Source:** The 2017 ACM - Ho Chi Minh City Regiona

Every years, universities can send one or multiple teams to the contest and all universities hope to win prizes. The organizers want to define a rule to award the excellent contestants.

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The contest director decided to follow the World Finals policy by having 4 first prizes, 4 second prizes and 4 third prizes. 12 winners out of more than a hundred teams is also a good proportion to recognize the best students.

Since universities can send multiple teams, we don't want one university to swept all the awards. Thus, only the top team from a university can be awarded. It seems harsh for the second best team from one university but do not worry, they will still receive relevant certificates.

The table below is the result of top 10 of Nha Trang Regional Contest 2016. The 4-th (team WINDOWS) and 8-th place (team UBUNTU) did not receive prizes because they were not the top team from University of Engineering and Technology - VNU. Team Metis and team BK.DeepMind are in the same situation.

Place	Institution	Team	Prize
1	Seoul National University	ACGTeam	First Prize
2	University of Engineering and Technology - VNU	LINUX	First Prize
3	Shanghai Jiao Tong University	Mjolnir	First Prize
4	University of Engineering and Technology - VNU	WINDOWS	
5	National Taiwan University	PECaveros	First Prize
6	Hanoi University of Science and Technology	BK.Juniors	Second Prize
7	Ho Chi Minh City University of Science	HCMUS-Serendipity	Second Prize
8	University of Engineering and Technology - VNU	UBUNTU	
9	Shanghai Jiao Tong University	Metis	
10	Hanoi University of Science and Technology	BK.DeepMind	

Given the final scoreboard of the contest, your task is to determine which 12 teams should be awarded prizes.

#### Input

- The input starts with the number of teams N (12  $\leq N \leq$  200).
- The *i*-th line of the next *N* lines contains information about the team that ranks *i*: the university name and the team name separated by a single space. Both names consists of digits, lowercase and uppercase English alphabet letters only. Both names does not exceed 20 letters in length.
- It is guaranteed that there are at least 12 different universities.

### Output

The output should contain 12 lines describing 12 winners. In each line, you should print the university name and the team name separated by a single space. The winners should be listed in the same order as the input.

## Sample Input 1

30 Seoul ACGTeam VNU LINUX SJTU Mjolnir VNU WINDOWS NTU PECaveros HUST BKJuniors

HCMUS HCMUSSerendipity

VNU UBUNTU SJTU Metis HUST BKDeepMind HUST BKTornado HCMUS HCMUSLattis

NUS Tourism VNU DOS

HCMUS HCMUSTheCows

VNU ANDROID

HCMUS HCMUSPacman HCMUS HCMUSGeomecry

UIndonesia DioramaBintang

VNU SOLARIS

UIndonesia UIChan FPT ACceptable

HUST BKIT

PTIT Miners PSA PSA

DaNangUT BDTTNeverGiveUp

VNU UNIXBSD

CanTho CTUA2LTT

Soongsil Team10deung Soongsil BezzerBeater

## Sample Output 1

Seoul ACGTeam VNU LINUX SJTU Mjolnir NTU PECaveros HUST BKJuniors HCMUS HCMUSSerendipity NUS Tourism UIndonesia DioramaBintang

FPT ACceptable PTIT Miners PSA PSA

DaNangUT BDTTNeverGiveUp