The Virtual Learning Environment for Computer Programming

# **Deanonymizing Grades**

We are to receive a list of grades for several courses and students. However, for privacy, they are provided anonymized: students will appear there identified by an anonymous numeric code. Separately, we have as well the code corresponding to each student's name (assumed a single word for simplicity). We want to list the plain names and codes together with the average grade of each student. The list must have a line per student, start with the student's name, and then indicate the code and the average grade; and must be ordered according to the numeric code.

### Input

First comes alone in a line the number of students n. Then come n pairs, each in a line, consisting of a student name and a numeric code, separated by a space. It is guaranteed that all the codes are different, and so are as well the names. Then comes the total number of grades m followed by m lines with grades: each line has, first, the numeric code of some student, then the mark of the student (a float) for one of the evaluable acivities of some course, also separated by a space.

### Output

Output must not include students with no grades. As for the rest, output consists of as many lines as students. Each line starts with the name of the student, then the numeric code corresponding to the student, and the average grade of the student. Print all floats rounded to two decimal places. The lines must come ordered according to the numeric code. Inside each line, everything must come separated by single spaces. There should not be trailing spaces.

155 7.7

#### Sample input

2150	9.2
10 154	8.7
Finley 2150 1159	8.5
Skyler 154 156	5.0
Lennon 1159 2151	6.7
Azariah 156 158	
Sidney 2151 1152	
Denver 158 3153	
Campbell 1152 4157	
Jaidyn 3153 155	
Brighton 4157 154	
Kylar 155 1159	
25 3153	
2150 6.6 4157	
154 7.3	
1159 5.0	•••
156 8.8	
2151 7.5	
158 4.1	
1152 2.3	
3153 9.3	
4157 6.7	

## Sample output

Skyler 154 8.63 Kylar 155 7.57 Azariah 156 6.90 Denver 158 4.85

### **Problem information**

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Campbel	.1	115	2	5.25
Lennon	11	59	7.	53
Finley	21	50	7.	90
Sidney	21	51	7.	10
Jaidyn	31	53	7.	13
Brighto	n	415	7	8.17