

In Turkey, students are admitted to University Bachelor (Undergraduate) Programs based on the exam results obtained from *YKS* (Yükseköğretim Kurumları Sınavı - Higher Education Institutions Examination).

Write a program that simulates a university entrance exam with candidates, their exam answers, their department choices and the placement of the candidates to their desired departments.

The score of each candidate is calculated by taking into consideration the performances of applicants in the exam. There are 20 questions in the exam. Every correct answer is graded as 5 points, so the maximum grade is 100. The candidate loses 2 points for each wrong answer. Empty answers will not affect the grading. The program should calculate and print the scores of all candidates on the screen.

Candidates are required to get a minimum score of 50 in the exam for enrolling in undergraduate programs.

The candidates are placed in the department of their choice within the available quota. Each candidate specifies at most three department choices to where he/she wishes to enroll. Assume that the quota of all departments is 4.

The number of departments is dynamic (maximum 7). The number of candidates is dynamic (maximum 30).

If the grades of two or more candidates are equal, the program can assign any of them to the department.

The program should print the results of department assignments on the screen.

{"4", "DENTISTRY"},

... };

Automatic array related commands such as Array.Sort() is not used

Assume that data is stored in the following arrays:

- -key
- -answers
- -candidates
- -departments

```
Example arrays:
The correct answers of the exam:
char[] key
                 = {'A','D','B','C','D','C','D','A','B','C','A','B','A','A','B','A','C','A','D','D'};
The answers of the candidates:
char[,] answers={{'A','D','B','B',' ','C','A','A','B',' ','A','B','A','A','A','A','C','A','C','D'},
                       {'A', 'B', 'B', 'C', 'D', 'C', 'D', 'A', 'B', 'C', 'D', 'B', 'A', 'A', 'B', 'A', 'C', 'A', 'C', 'D'}, 
{'A', 'D', 'A', 'B', 'D', 'C', 'A', 'A', 'B', 'C', 'A', 'B', 'A', 'B', ' ', 'C', 'C', 'A', ' ', 'D'}, 
{'A', ' ', 'B', 'C', 'D', 'C', 'D', 'A', 'B', 'C', 'A', 'B', 'A', ' ', 'B', 'A', 'C', 'A', 'D', 'D'},
The candidates: (number, name & surname, choice1, choice2, choice3)
string[,] candidates = {{"2005", "Ali Terim", "4", "6", "1"},
                                 {"1844","Ece Yaman","1","4",""},
                                 {"3020", "Ege Soylu", "5", "", ""},
                                 {"2280", "Ahmet Akkoyun", "1", "3", "5"},
The departments: (no, department name)
string[,] departments = {{"1", "COMPUTER ENGINEERING"},
                                   {"2", "ELECTRONICS ENGINEERING"},
                                   {"3", "MEDICINE"},
```

# The output of the program:

### Print the scores of all candidates on the screen

## For example:

Number	Name & Surname	Score
2005	Ali Terim	62
1844	Ece Yaman	94
3020	Ege Soylu	55
2280	Ahmet Akkoyun	90
	•••	

# Print the results of department assignments

## For example:

No	Department	Studer	nts		
1	COMPUTER ENGINEERING	1844	2280	1122	4214
2	ELECTRONICS ENGINEERING	3310	1446	2660	
3	MEDICINE	5577	7100	4411	2323
4	DENTISTRY	1000	3355	8788	1144
5	MATHEMATICS	2662	4345		
	•••				