The solution of the homework can be summarized in the following steps:

At the beginning, all information is extracted from a file called " course\_list.txt. This information was stored in an object of a course class (which is created for this purpose), and it describes the name of the course, its id and other information like hova, etc...

After that a list is created containing the id(s) of all courses.

The task starts by comparing and analyzing the different information such as tsamode, prev..

The student specialty was obtained from the same file “studnet1.txt”. This can be one of the four possibility: Na, computer, signal and devises. Different functions should be called depending on his/her specialty. The student provides the function the number of points and the course he wants to take. The function returns a list of possible courses that the student can take depending on the credit points he/she has provided. In some cases, the function returns cannot return exactly the courses having credit points equal to the provided number, so it returns courses with closer total points as possible.

One possibility of the program is that the student can add, delete and replace the recommended courses if he/she want. This can be done by choosing one of the following possibilities:

1 for add

2 for delte

3 for replace

0 for do nothing

This task has been solved using list. However, as working with dictionaries is more efficient (e.g time efficiency), I decided to solve the task again using dictionaries instead of lists.