Assignment 1 - COEN 244

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Introduction

This assignment is worth 5% of your grade. This is an **individual assignment** (so individual, I put *your* student ID on it) and you should not share your assignment with anyone else. The **assignment is due Sep 29th at 11:59PM**, Montreal time.

All submissions must go through Moodle. I like EAS, but the new VPN rules suck.

Q1) Filtering Files

Assume the information of all the TAs for the ECE department is stored in a file that is called TAs.txt. In order to be eligible for the TA position, a student should be currently registered and can not be an alumni. However, the file contains old data; it includes some records of TAs who have already graduated and who are no longer allowed to TA. The format of each TA record in the file is as follows:

```
Status First_Name Student_Id Year_Hired
```

The first line of the file should show the total number of students records (max number of records is 100).

Note that the TAs can be classified as any of the following (even if they don't all appear in your example):

- Grad
- UGrad
- Alum

Part A)

You need to write a program that reads the file, removes any lines with invalid TAs (those who have Alum as the value for classification) and updates the original file.

Work with a vector of TA objects.

Example 1 Initial Student File: Alum 4042349 George Abdulla 5788200 UGrad UGrad Udaipal 9172880 2014 Alum Jashan Pre t Singh 1562166 2015 UGrad Jeffrey 7576729 2015 Initial Student File: After Correction: 5788200 UGrad Abdulla 2019 Udaipal 9172880 2014 UGrad UGrad Jeffrey 7576729