**Exercise 2**

**1, Complete the Basic "Assignment 1: ScroogeCoin" from the Book**

https://bitcoinbook.cs.princeton.edu/ draft here
https://www.lopp.net/pdf/princeton_bitcoin_book.pdf

This exercise is also available from the Coursera course
(https://www.coursera.org/learn/cryptocurrency where you can upload your solution and test it.

I have also included some test file in a separate folder that you use to test your solution plus a starter main file.


2. Complete the second part of the "assignment" which calculates the set of transactions that maximizes total transaction fees.

Approaches: see class powerpoint slides

Using 1) A Greedy Approach

Using 2) Brute Forse Search (for small sized Tx sets – e.g. Maximum 10)

Using 3) Topological Sort


You should definitely implement approaches 1 and 2.


You will need to construct test sets (of Tx's) in order to test your program


**Instruções**

- Este Exercício é "Grupo (3)".
- Prazo para Entregar no Moodle : Dia 19 de Novembro de 2029
- Entregar : A sua implementação (código num ficheiro zip) e Relatório
- Avaliação – Discussão com Grupo.