

Assignment 7.

Post date: Nov. 20, 2014.

Due date: Nov. 28, 2014 (Friday) by noon. Hand in printed paper at assignment box at 4th floor of MC across from the tutorial centre.

Marking will be done by Prof. Ma.

Mandatory requirement for assignment being accepted:

The answers need to be typed up with a computer and printed on letter size paper. The top of the page should contain your name and student ID.

Question 1. (10 marks)

Provide a list of at least 10 main results learned in this course. The result can be either positive (algorithm) or negative (hardness). For each result, use a short sentence or even few concise keywords to describe it; and provide a numeric rank for the difficulty level and your favorite level. The ranks are out of 5, with the following meanings:

Difficulty level:

- 5 (too difficult, shouldn't be included in the course)
- 4 (challenging)
- 3 (right)
- 2 (easy)
- 1 (too simple, shouldn't be included in the course)

Favorite level:

- 5 (amazed by the result)
- 4 (very interesting)
- 3 (interesting)
- 2 (not interesting)
- 1 (boring or ugly)

You can also provide an optional free-form comment line to each individual result. Each item in your list can also be a summary of a few related facts in different lectures. For example:

Result 1: Minimum spanning tree. $O(m \log m)$ algorithm using Union Find.

Rank: Difficulty: 3; Favorite: 3;

Comment: I like the fact that MST helps to design approximation algorithms.

The marking will be based on the format rather than content. That is, your choice of results or rank and comments will not affect your marks. Consider this as an opportunity for you to review the course material in preparation for the final exam, and to provide me frank feedback on the choice of course material.