

Problem Set 6

Due dates: Electronic submission of .tex and .pdf files of this homework is due on **10/19/2017 before 11:00am** on csnet.cs.tamu.edu, a signed paper copy of the pdf file is due on **10/19/2017** at the beginning of class.

Name: (put your name here)

Resources. (All people, books, articles, web pages, etc. that have been consulted when producing your answers to this homework)

On my honor, as an Aggie, I have neither given nor received any unauthorized aid on any portion of the academic work included in this assignment. Furthermore, I have disclosed all resources (people, books, web sites, etc.) that have been used to prepare this homework.

Signature: _____

This short homework will give you some more exercises on amortized analysis. The total number of points is 70 instead of 100, since it is less involved than some previous homeworks. Make sure that you work out your solutions on your own. You need to write your solutions in your own words.

P 1 (10 points). Exercise 17.1-1 on page 456

Solution.

P 2 (20 points). Exercise 17.1-3 on page 456, but use as a cost i^2 (instead of i) when i is a power of 2, and 1 otherwise.

Solution.

P 3 (20 points). Exercise 17.2-1 on page 458

Solution.

P 4 (20 points). Exercise 17.2-2 on page 459 (use our modified version **P2** above).

Solution.

Discussions on ecampus are always encouraged, especially to clarify concepts that were introduced in the lecture. However, discussions of homework problems on ecampus should not contain spoilers. It is okay to ask for clarifications concerning homework questions if needed.

Checklist:

- Did you add your name?
- Did you disclose all resources that you have used?
(This includes all people, books, websites, etc. that you have consulted)
- Did you sign that you followed the Aggie honor code?
- Did you solve all problems?
- Did you submit the pdf file of your homework?
- Did you submit a hardcopy of the pdf file in class?