CS170–Fall 2014 — Solutions to Homework 7

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Collaborators: PUT SOMETHING HERE (LIST OF YOUR COLLABORATORS, OR WRITE NONE)

1. Amortized running time

(a) YOUR ANSWER GOES HERE

(b) YOUR ANSWER GOES HERE

(c) YOUR ANSWER GOES HERE

(d) YOUR ANSWER GOES HERE

(e) YOUR ANSWER GOES HERE

(f) YOUR ANSWER GOES HERE

(g) YOUR ANSWER GOES HERE

(h) YOUR ANSWER GOES HERE

2. Proof of correctness for greedy algorithms

(a) YOUR ANSWER GOES HERE

(b) YOUR ANSWER GOES HERE

(c) YOUR ANSWER GOES HERE

3. Job Scheduling

(a) YOUR ANSWER GOES HERE

(b) YOUR ANSWER GOES HERE

(c) YOUR ANSWER GOES HERE

4. Timesheets

YOUR ANSWER GOES HERE
Proof of correctness. YOUR ANSWER GOES HERE

5. A greedy algorithm—so to speak

Main idea. YOUR ANSWER GOES HERE
Pseudocode. YOUR ANSWER GOES HERE
Proof of correctness. YOUR ANSWER GOES HERE
Running time. YOUR ANSWER GOES HERE
Justification of running time. YOUR ANSWER GOES HERE

6. A funky kind of coloring

(a) YOUR ANSWER GOES HERE

(b) YOUR ANSWER GOES HERE