

CS107 Midterm Exam

Answer Booklet

CS107 Spring 2019 – Instructor: Nick Troccoli

You may not use any internet devices. You will be graded on functionality – but good style saves time and helps graders understand what you were attempting. You have 110 minutes. We hope this exam is an exciting journey.

Note: Only work in this answer booklet will be graded. The backs of pages are available as space for each problem as well.

First Name: _____

Last Name: _____

SUNET ID (part before @stanford.edu): _____

By signing below, I commit to the letter and spirit of the honor code. I agree not to access any unauthorized resources or swap to any other applications for the duration of the exam.

Sign here

Problem 1A

Problem 1B

Problem 1C

Problem 2A

Problem 2B

Problem 2C

Problem 3

```
char *find_and_replace(const char *str, const char *find,  
                      const char *replace) {  
    // your answer here
```


Problem 4A

```
void *get_resized(void *base, size_t nelems, size_t elem_size_bytes,  
                 size_t *p_nelems, size_t (*times_fn)(void *)) {  
    // your code here
```

Problem 4B

```
size_t times_int(void *ptr) {  
    // your code here
```

Problem 4C

```
size_t times_string_length(void *ptr) {  
    // your code here
```