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