Term Test 1 - L5101



My score

75% (21/28)



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TERM TEST 1

 ${\rm CSC}\,209\,{\rm H1S}\,{\rm -6pm}\,\,{\rm Section}$

Feb 2025

Q1abc Question 1. [7 MARKS]

Part (a) [1 MARK]

Suppose we have a C source file called code.c. Write the gcc command to compile this program into an executable named code. Make sure all warnings are enabled and debugging symbols are included, so we can debug the program later using gdb.

Part (b) [1 MARK]

When Paul (who has username paulhe, and is in the group instrs) ty following line:

dry/rwx; 1 reid instrs 15960 Jan 10 16:32 tests
When Paul types 1s tests describe the output that would be printed. Deput would put wholever is in the feste a) minor error

(soln: gcc -Wall

-g -o code

-0.5code.c)

Part (c) [1 MARK]

code is a program that takes one argument: the name of a file to read from. code then reads from that file and prints the first line of that file to standard output. Complete the command below that counts the number of characters in the first line of data.txt.

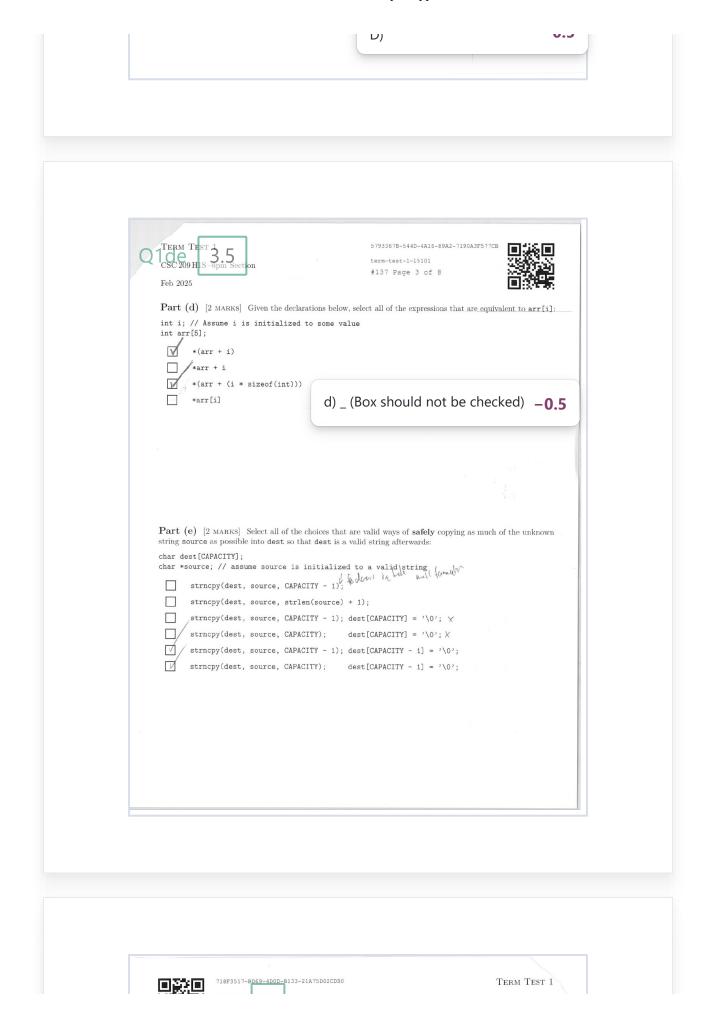
Fill in the boxes with the letter corresponding to what should go in that spot. Options can be used multiple times, and some may not be used at all.

B. >

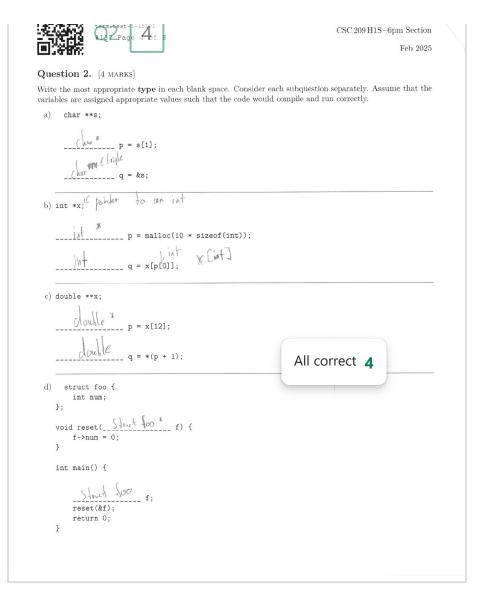
D. Nothing, the box should be a space

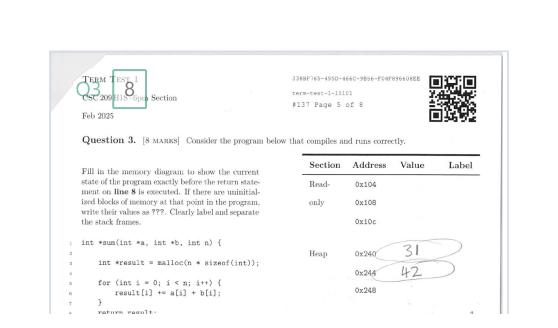
c) first box incorrect (soln:

_0 5



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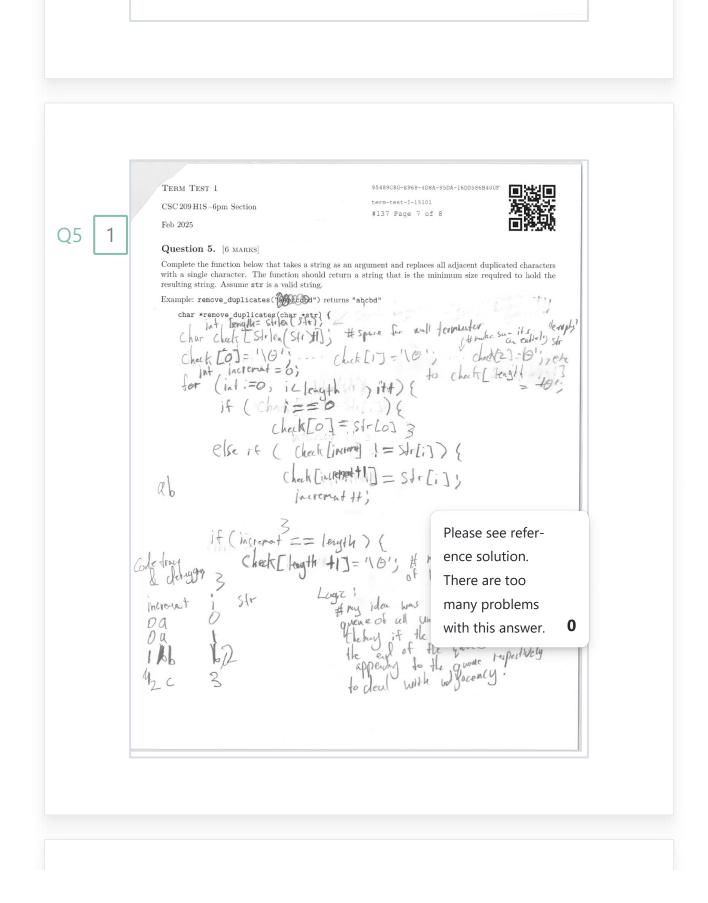




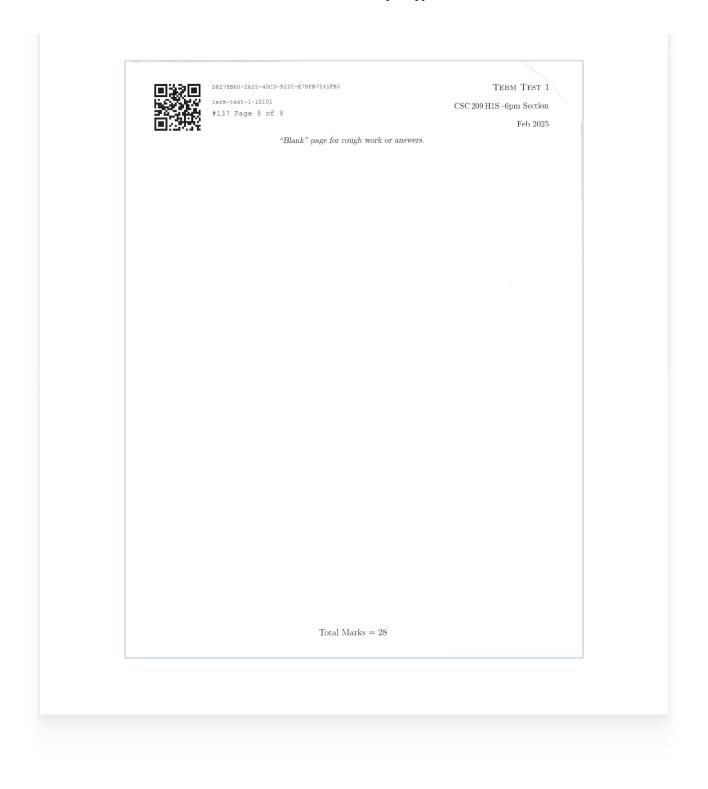
```
arrI
                                                                        0x448
11 int main() {
       int arr1[2] = {11, 12};
int arr2[2] = {20, 30};
12
                                                                                                arr2
                                                                        0x44c
13
14
                                                                        0x450
                                                                                    X240 Ptr
        int *ptr = sum(arr1, arr2, 2);
                                                    Correct! 8
                                                                        0x454
        free(ptr);
                                                                        0x458
        return 0;
                                                                        0x45c
                                                                       0x460
                                                          Sum
                                                                       0x464
                                                                       0x468
                                                                       0x46c
                                                                       0x470
                                                                                                 result
                                                                       0x474
                                                                       0x478
                                                                       0x47c
                                                                       0x480
                                                                       0x484
```

```
E8-4DF4-A7BC-BE9332111329
                                                                   TERM TEST 1
                                                            CSC 209 H1S-6pm Section
Question 4. [3 MARKS] Given the following constants and struct definition, complete the code below so
that it compiles and runs without error, and behaves according to the comments. The output when running the
program should be Name: Adaine Class: Wizard.
#define NUM 5
#define MAX_LEN 32
struct role {
    char class[MAX_LEN];
// Initialize the name field with new_name and the class field with new_class
Minor issue in
    // dynamically allocate space for an array of size NUM
                                                        set_role (note
    struct role *roles = malloc(NUM * sizeof(struct role));
    // set the Oth element of roles
                                                        allocating new
               Toles
                             ____, "Adaine", "Wizard");
    set role(
                                                        space for
    // print the fields of the Oth element of roles
                                                        name is ok,
   but not neces-
    return 0;
                                                                            -0.5
                                                        sary)
```

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