

PRELAB #10 - CSE 1310

Objectives:

The purpose of this PRELAB is to help you in:

- Functions, Arrays and Strings

1. True or False:

- a. The size of an array must be an integer constant.
- b. An array cannot be initialized during declaration.
- c. An address operator should be used for the string variable.
- d. The value of array subscript must start from one.
- e. When passing an array to a function, function has its own copy of the array.
- f. Strings are essentially arrays of characters.
- g. Individual array elements can be used with a expression.

2. Fill in the blank:

- a. An array can store data types of _____, _____ and _____.
- b. An array subscript may be any expression of type _____.
- c. When an entire array is passed to a function, the _____ of the first element of the array is sent.
- d. If the string "PROGRAM" is stored into a variable 'string_var', then the output of the statement `printf("%4s\n",string_var);` will be _____.

3. For the declaration `char array_name[] = "This is an inlab";` what is the size of the `array_name`?

4. How do you define an array of strings?

5. What is the difference between the 'strcpy' and 'strncpy' library functions?

6. Determine if the following piece of code is correct or not. Support your judgement with proper reasoning.

```
char any_string[15];  
any_string = "This is a test string";
```

7. Can you think of a way to combine the following two statements into just one statement?

```
a[i]=data;  
++i;
```

8. Write a *for* loop that sums the even values from the array *list* of size *n*.