

COMP 166 – Week 6 Quiz

Name: _____

1. Suppose you have downloaded a function called `findValue()` that takes 3 parameters: an `int` array, the size of the array, and an `int` target value, in that order. The function goes through the array looking for the target value, and returns the *index* of the first occurrence of the target value, or -1 if the value is not in the array.

Write a small code fragment that ***calls this function*** looking for the value “7” in a 15-element array called `arr`. Do not write the function – it is already written! Display the result; don't do anything special if the return result is -1; just print out whatever is returned. Assume the array `arr` has ***already been declared and initialized***. If you use any variables besides `arr`, be sure to declare them properly, and initialize them if necessary. You may not assume that any variables or constants besides the array have already been created.

DO NOT WRITE THE FUNCTION --- JUST CALL IT, AND PRINT THE RETURNED VALUE!!!

2. Write a code fragment that declares and initializes a 10-element array with the values 1 through 10.

You may name the array anything you like, but don't forget to properly declare it! Also, declare any extra variables you need.

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3. Below is an unfinished header file that contains the prototypes of a few useful functions. Fill in the *preprocessor directives* that force this header file to be processed only once, regardless of how many times it is #included from the other files.

“utils.h”

```
double findMax(double, int);  
double sinc(double);  
char * strcmp(char *, char *);
```

4. **True or False:** When declaring an array as a parameter in a function, you **must** specify the number of elements the array contains, inside the square brackets.

TRUE

FALSE

5. Which of the following correctly declares (i.e. gives a proper prototype of) a function named `bar` that has no return value and takes two parameters: a double, and a double array?

- (a) `bar(double x, double [] s)`
- (b) `double bar(double s[])`
- (c) `void bar(x, s)`
- (d) `void bar(double x, double s[])`