Name:_____ CM: ____ Grade:____

This quiz is due after you have finished watching the **Configuring C Workspace**, **First C Program**, **Why C, Strings and Printf, Scanf, Structs**, and **Point** videos. Feel free to complete the quiz as you watch.

Video: Why C

1. What does "static typing" mean?

Video: Strings and Printf

2. **True** or **False** (circle one), the literals "C" and 'C' mean the same thing in C.

We skip the video on ifs and whiles in C, since they are identical to Java, except there is no Boolean type in C: instead ints are used: o is false, anything else is true.

3. How many Xs would each print? (Be careful!)

Video: Scanf

4. Why do we pass an address of the input variable to the scanf() function?

5. Suppose we have the following C code:

int day, month, year; printf("Enter your birthday: "); fflush(stdout); scanf("%d/%d/%d", &day, &month, &year);

What would be the appropriate input to type at the prompt?

Video: Structs

- 6. #define is often used to define named ______.
- If we want to name a new type in C, we use _____.
- 8. C structs can be used to group together:
 - a. Just heterogeneous data
 - b. Just homogeneous data
 - c. Both heterogeneous and homogeneous data
- 9. The individual members of a struct are accessed using the ______ operator.
- 10. Suppose we had a struct with three fields like so:

```
typedef struct {
    int areaCode;
    int exchange;
    int line;
} Phone;
```

finish the following function declaration:

```
void printAreaCode(Phone p) {
    printf("%3d\n", _____);
}
```

11. **True** or **False** (circle one), the name of a struct type, defined with typedef, can be used in variable declarations or formal parameter declarations, just like a built-in type (e.g., int) is used.

Video: Point

12. Handwrite code below that defines a struct type called LineSegment that represents a line segment, given that a line segment has two end points. (Hint: it is OK for a struct to contain fields that are themselves of some struct type.) Feel free to try your code in Eclipse before writing it down here.

13. After watching this set of videos, what questions, if any, do you have? If none, please write "None".