


 Your Name: _____
 ID#: _____

 TA's Name: _____
 Section #: _____

KEY: Take Home: Quiz 2 (15 pts) - Introduction to Computer Programming and C

Using Canvas <https://canvas.wsu.edu/>, please submit your solution to the correct quiz folder. Your solution should be a .pdf file with the name <your last name>_quiz2.pdf and uploaded. To upload your solution, please navigate to your correct Canvas **lab** course space. Select the "Assignments" link in the main left menu bar. Navigate to the correct quiz submission folder. Click the "Start Assignment" button. Click the "Upload File" button. Choose the appropriate .pdf file with your solution. Finally, click the "Submit Assignment" button.

NOTE: The use of gen AI is forbidden for quizzes.

1. (4 pts - 1 pt/statement) Implement a code *fragment* that declares a floating-point variable, prompts the user for their height in centimeters, reads the height from the keyboard, and displays the height in centimeters back to the screen. You should have 4 total C statements for this problem. You do not need to show main () or any include statements.

```
double height = 0.0; // using float is ok here
printf("Enter your height in centimeters: ");
scanf("%lf", &height); // if using float type, you should use %f
printf("Your height in centimeters is: %lf\n", height); // if using float type, you should use %f
```

2. (3 pts) In your own words, what is a *data* type? Explain.

A data type is a set of values and operations that can be performed on those values. In C some standard data types include int, double, and char. Each one of these types has specified operators that may be applied to items of that type. For example, % (mod) can be applied to integers (int), but not floating-point numbers (double), etc.

3. (5 pts - 1 pt/blank) Provide each result for the following C language expressions. Numbers listed without a decimal point are considered integer values and ones with a decimal point are considered double precision floating-point values.

- a. $3 - 5 + 1$ = -1
- b. $8 + 25 / 3$ = 16
- c. $2 \% 13$ = 2
- d. $21.0 / 7 * -4.5$ = -13.5
- e. $8.0 - 3 / 2 - 20 * 2 \% 4$ = 7.0

4. (3 pts - 1 pt/blank) What C data types should be used to *best* represent the following? For each blank, you may list *int*, *double*, or *char* only. These types may be used multiple times.

CptS 121 – Program Design and Development

Date Assigned: Fri, Sep 4, 2026 Due Date: Tues, Sep 8, 2026



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- a. The number of countries in the world? _____ **int** _____
- b. The average annual income of all families in the U.S.? _____ **double** _____
- c. The number of contacts in your phone? _____ **int** _____