

Quiz 1 (4 points) - L05(27) Tu

Date: Jan 28, 2025

Time limit: 40 minutes

Name:

Student Number:

Use correct data types to save information about a student, and print data in the terminal.

| Variable | Range | Initialize example |
|--------------|----------------------------|--------------------|
| studentID | 100,000,000 to 200,000,000 | 100648765 |
| studentAge | 10 to 99 | 18 |
| studentFee | 0.00\$ to 100,000.00\$ | 78.05 |
| studentGrade | F to A+ | A- |

Write a C code in a `int main()` that:

1. declares the above variables and initializes them with the given example (2/4 points),
2. prints each variable in the terminal in a readable format (2/4 points).

Important Notes:

- The code must work in any OS with no compile or run issues (1 point deduction for errors).
- An integer value inherently excludes the possibility of fractional parts, making it unsuitable for storage as a floating-point number.
- Make sure to use the correct data types to consider the positivity/negativity of numbers, avoid loss of information and minimize memory waste.

Quiz 1 (4 points) - L06(21) Mo

Date: Jan 27, 2025

Time limit: 40 minutes

Name:

Student Number:

Each season in National Hockey League the average goals scored per game is reported by dividing the total number of goals scored by the total number of games played in a season. The following table shows these numbers in season 2022-23.

| | Season 2022-23 | Range |
|-------------|----------------|---------|
| Game Played | 2624 | 0-3500 |
| Goals | 8248 | 0-20000 |

Write a C code in a `int main()` that

1. declares the above variables and initializes them with the given numbers (1/4 points),
2. calculates the average goals per game with two decimals (2/4 points),
3. prints each variable in the terminal in a readable format (1/4 points).

Important Notes:

- The code must work in any OS with no compile or run issues (1 point deduction for errors).
- An integer value inherently excludes the possibility of fractional parts, making it unsuitable for storage as a floating-point number.
- Make sure to use the correct data types to consider the positivity/negativity of numbers, avoid loss of information and minimize memory waste.

Quiz 1 (4 points) - L07(20) Tu

Date: Jan 28, 2025

Time limit: 40 minutes

Name: _____

Student Number: _____

Write a C code in a `int main()` to find the average of the following numbers with a **higher** precision (2/4 points).

```
float num1 = 12.5, num2 = 15.75, num3 = 18.25;
```

The program must print the result with 6 decimals in the terminal (1/4 points). In one line, explain how to compile and run the program (1/4 points).

Important Notes:

- The code must work in any OS with no compile or run issues (1 point deduction for errors).
- Make sure to use the correct data types to avoid loss of information and minimize memory waste.

Quiz 1 (4 points) - L08(27) Mo

Date: Jan 27, 2025

Time limit: 40 minutes

Name:

Student Number:

Complete the following code:

```
// CODE: Add necessary library(ies) (1/4 points)

int main() {
    char str1[100] = "Hello, ";
    char str2[] = "McMaster!";

    // CODE: Add code here to copy str2 to str1 using strcpy (1/4 points)

    // CODE: Add code here to print the size of memory taken by str1 (
        including null terminator) (1/4 points)

    return 0;
}
```

In one line, explain how to compile and run the program (1/4 points).

Important Notes:

- The code must work in any OS with no compile or run issues (1 point deduction for errors).