

# CS 1324 Spring 2021 Homework 1 Primitive Data Types

Jordan McFadden

TOTAL POINTS

**10 / 10**

QUESTION 1

Question 1 7 pts

1.1 Question 1a 1 / 1

- ✓ - **0 pts** Correct
- **0.5 pts** Partially correct

1.2 Question 1b 1 / 1

- ✓ - **0 pts** Correct
- **0.5 pts** Partially correct

1.3 Question 1c 1 / 1

- ✓ - **0 pts** Correct
- **0.5 pts** Partially Correct

1.4 Question 1d 1 / 1

- ✓ - **0 pts** Correct
- **0.5 pts** Partially Correct

1.5 Question 1e 1 / 1

- ✓ - **0 pts** Correct
- **0.5 pts** Partially Correct

1.6 Question 1f 1 / 1

- ✓ - **0 pts** Correct
- **0.5 pts** Partially Correct

1.7 Question 1g 1 / 1

- ✓ - **0 pts** Correct
- **0.5 pts** Partially Correct

QUESTION 2

2 Question 2 1 / 1

- ✓ - **0 pts** Correct

QUESTION 3

3 Question 3 2 / 2

- ✓ - **0 pts** Correct
- **0.5 pts** Partial Credit

# Storing Primitive Data Homework

CS 1323/4 Spring 2021

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1. (7 points) Declare a variable of the **best** type (int, double, char, String, boolean) to store each of the following items. A variable declaration uses a type followed by an identifier, as shown below.

int iAmAnIdentifier;

- a. The number of cups of milk in a batch of muffins. A cup is about  $\frac{1}{4}$  of a liter. Muffins typically use about  $\frac{1}{2}$  cup of milk.

`double numCupsOfMilk;`

- b. The number of eggs in a batch of muffins. Only whole eggs are used.

`int numEggsUsed;`

- c. The number of tablespoons of milk in a cup (16, BTW, if you don't cook in English units).

`final int TBLESPOONS_PER_CUP;`

- d. Whether or not the muffins are vegan.

`boolean vegan;`

- e. The name of the sweetener you use in a batch of muffins (e.g. sugar, honey, applesauce).

`String typeOfSweetner;`

- f. The temperature of the oven to bake the muffins (e.g. 350 or 375 degrees). Ovens do not measure partial degrees.

`int ovenTemp;`

- g. The type of flour used, stored as a single letter (A for all purpose flour, G for gluten free flour, R for rice flour, etc.).

`char flour;`

2. (1 point) Which one of the variables above should be a constant? (give the part number, i.e. a, b, c...).

`c`

3. (2 points) What will each of the variables below contain after the statements are executed?

```
int fred = 9;  
int barney = 7;  
int wilma = 8;  
barney = wilma;  
wilma = fred;  
fred = wilma;
```

Fill in the table below to show what value each variable contains. Include both the starting value (in the top line) and the ending value (in the bottom line), even if they are the same.

Variable	fred	barney	wilma
Starting value	9	7	8
Ending value	9	8	9