

Review

Mini Test 1

Introduction to Computer Programming - CST8110
Algonquin College - David Lareau
Fall 2017

Exam Topics

The mini test is divided in the following categories:

- (5 points) Arithmetic
- (5 points) Variables and Types

The test does NOT contain questions regarding:

- Command Line, or Input/Output Redirection.
- PATH environment variable.
- printf().
- Scanner.
- Computer concept like binaries versus code.

Exam Style

Questions will be of the type:

- Short Answers
- Fix Bad Code

All code is written in Java.

There are no tricks. If the code has a subtle bug, then the question is about finding that bug.

I will post a solution online when all the marks are in.

Rules

The mini test is closed-book.

- No phones or tablets in hands
- No notes
- No open laptop
- No using internet watch
- Just your brains and your pencil/eraser.

You won't be needing a calculator. Any arithmetic questions will involve simple numbers.

Examples

- Write down the **values** of the following Java expressions once evaluated.

- _____
1 + 10 / 2

- _____
(int) (2 + 1.5) + 1

Examples

- Write down the **values** of the following Java expressions once evaluated.

- _____
 $1 + 10 / 2$

Answer: 6

- _____
`(int) (2 + 1.5) + 1`

Answer: 4

Variables and Types (5 points)

Examples

- What is the **output** of the following Java instructions? Write your answer in the space available to the right of the code.

```
int value;  
value = 2;  
value = value + 5;  
value = 2 * value;  
System.out.println(value);
```

- Write down the **type** (i.e. int, double, char, String, boolean) of the following Java expression once resolved.

```
5 > 7 + 1.5
```

Variables and Types (5 points)

Examples

- What is the **output** of the following Java instructions? Write your answer in the space available to the right of the code.

```
int value;  
value = 2;  
value = value + 5;  
value = 2 * value;  
System.out.println(value);
```

Answer: 14

- Write down the **type** (i.e. int, double, char, String, boolean) of the following Java expression once resolved.

```
5 > 7 + 1.5
```

Answer: boolean