Quiz 3

27 February 2013

You have up to 25 minutes. You may use a calculator, but no text book or notes.

1. Carefully trace the following algorithm. What does it output? Be sure to mark a section of your answer as the *output*, separate from your scratch work.

```
step 1. Let N be 8
step 2. Set I to 1
step 3. If I > N then stop.
step 4. If I < 4 or I is odd, then output I
step 5. Set I to I+1
step 6. Go back to step 3.</pre>
```

- 2. For each type of statement below, indicate which step(s) from the algorithm in question 1 contain that type of statement.
 - a. Output:
 - b. Variable assignment:
 - c. Conditional:
 - d. Loop:

- 3. Below is an illustration of an array and two other variables. What are the values of each of the following expressions?
 - a. A[0] =
 - b. A[X] =
 - c. A[Y]+1 =
 - d. A[X+1] =
 - e. A[A[2]] =

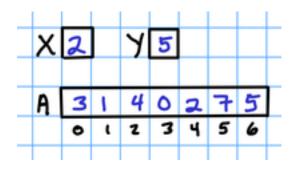


Figure 1: