University of Toronto, St. George Campus
Department of Computer Science

CSC 165H1 F
Fall 2007

Quiz #1

Name: ______________________ Marker's name: ______________________

Instructions to student: Using pen, write your answers in the space provided and leave the right column blank.
Instructions to marker: Write only in the right column, and clearly indicate the mark you believe is deserved in each category. Write the total in the provided blank.

Consider the following Java methods:

```
public class Quantify {

  static boolean P(int x) {
    return x > 4;
  }

  static boolean m1(int[] A){
    for (int i=0; i < A.length; ++i) { if (P(A[i])) { return true; } }
    return false;
  }
  static boolean m2(int[] A) {
    for (int i=0; i < A.length; ++i) { if (P(A[i])) { return false; } }
    return true;
  }
  static boolean m3(int[] A) {
    for (int i=0; i < A.length; ++i) { if (!P(A[i])) { return true; } }
    return false;
  }
  static boolean m4(int[] A) {
    for (int i=0; i < A.length; ++i) { if (!P(A[i])) { return false; } }
    return true;
  }
}
```

In the blank beside each definition of array A below, write the name of the method or methods m1–m4 which will return `true` if they are passed A. You may ask your TA about the mechanics of Java.

(a) `int[] A = new int[]{1,2,3};` ______________

(b) `int[] A = new int[]{5,6,7,8};` ______________

(c) `int[] A = new int[]{4,3,2,1,0};` ______________

(d) `int[] A = new int[]{0,1,2,3,4,5,6,7,8,9};` ______________

(e) `int[] A = new int[]{};` // empty array ______________

For marking only:

5 marks:
1 mark for each part correct

(a):

(b):

(c):

(d):

(e):

Total: ________