**Number of Questions — 4**

**Percent of total test grade —46**

1. Write a static method countdown that takes one int parameter, and displays a “countdown” from that number down to zero. For instance, the method calls:

* countdown(5) should output: 5 4 3 2 1 0
* countdown(10) should output: 10 9 8 7 6 5 4 3 2 1 0

Write your **method header** and **method body** in the space below:

**GO ON TO THE NEXT PAGE.**

1. Write a static method compareEvenOdd that takes two int parameters, and returns a boolean . It should return true if the numbers are **both odd** or if the numbers are **both even**. It should return false if one of the numbers is even and the other number is odd.  
     
   For instance, the method calls:

* compareEvenOdd(4, 6) should return true (since 4 and 6 are both even)
* compareEvenOdd(5, 1) should return true (since both 5 and 11 are odd)
* compareEvenOdd(7, 8) should return false (since 7 is odd and 8 is even).

Write your **method header** and **method body** in the space below. For this problem, your

method must use a return statement, **not** System.out.println() .

**GO ON TO THE NEXT PAGE.**

1. Write a static method middleValue that takes three int parameters, and returns a int . It should **return** the middle value of the three parameters (sometimes called the *median value*). You may assume that all three parameters are different values (there are no duplicates).  
     
   For instance, the method calls:

* middleValue(3, 1, 4) should return 3
* middleValue(1, 2, 8) should return 2
* middleValue(8, 9, 0) should return 8
* middleValue(3, 5, 4) should return 4
* middleValue(3, 5, 4) should return 4

Write your **method header** and **method body** in the space below. For this problem, your

method must use a return statement, **not** System.out.println() .

**GO ON TO THE NEXT PAGE.**

1. On the following page, write a static method printShortWords that accepts two parameters: a String str containing a list of words (separated by spaces), and an integer maxLength . This method should print out the words in str whose lengths are at most maxLength. You can assume there will always be a space after the last word in the string.

For example, the method call

printShortWords("I love AP Computer Science ", 4);

will print out:

I

love

AP

The method call:

printShortWords("this problem is hard ", 3);

will print out:

is

Hint: figure out what the *first* word of the string is, and compute its length.

**GO ON TO THE NEXT PAGE.**

**END OF SECTION II.**