Term 2

Lesson 6:

AP Exam Review - Multiple Choice Practice



```
0000000
111111
22222
3333
444
55
6
```

```
A.) for (int k =0; k <= 7; k ++)

{
    for (int j = k; j <= 7; j++)
        {
            System.out.print( k );
        }
        System.out.println();
```

```
0000000
111111
22222
3333
444
55
6
```

```
B. for (int k = 0; k < 7; k++)
{
    for (int j = k; j < 7; j++)
        {
            System.out.print( k );
        }
        System.out.println();
        }
}</pre>
```

```
0000000
111111
22222
3333
444
55
6
```

```
0000000
111111
22222
3333
444
55
6
```

```
0000000
111111
22222
3333
444
55
6
```

```
E. for (int k = 0; k < 7; k ++)
{
    for (int j = k; j < 7; j++)
    {
        System.out.print( j + k );
    }
    System.out.println();
}</pre>
```

Questions 2-3 refer to the following incomplete class declaration.

```
public class Birthday
  private int day; // 1 <= day <= 31
  private int month; // 1 <= month <= 12
  private int year; // year >= 1900
  public Birthday (int m, int d, int y)
     month = m:
     day = d;
     year = y;
```

```
/** Calculates the current age based
   on a date passed in
   * @param m the current month
   * @param d the current day
   * @param y the current year
   * @return the current age
   *
   * */
  public int getAge (int m, int d, int y)
     /* missing code*/
  //other methods not shown
```

2. Which of the following can be used to replace /* missing code */ so that the age is correctly calculated?

```
if (year > y)
     return y - year;
B.
     if (y > year)
                                                                 return year - y;
                                                      return 0;
               return y - year;
     return 0;
                                                      int age = y - year;
C. if (y > year)
               return y - year;
     if (m > month)
                                                       if (m < month)</pre>
               return 1:
                                                                 age--;
     if (d > day)
                                                       if (m == month \&\& d < day)
               return 1:
                                                                 age--;
     return 0;
                                                       return age;
```

Questions 2-3 refer to the following incomplete class declaration.

3. Consider the following declaration that appears in a client program:

```
ArrayList<Birthday> birthdayCards = new ArrayList <Birthday>();
```

Assume birthdayCards has been initialized with Birthday objects. Consider the following method that is supposed to return an ArrayList of all the Birthdays in a given month:

```
public static ArrayList<Birthday> getCurrentBirthdays (int m, ArrayList<Birthday> bDays)
{
    ArrayList<Birthday> list = new ArrayList<Birthday>();

    /* missing code */
    return list;
}
```

Which of the following can be used to replace /* missing code*/ so that the code segment will work as intended?

```
for (Birthday b: bDays)
             list.add(b);
B.
     for (Month m: bDays)
             list.add(b);
C.
     for (Birthday b: list)
           if (m == b.getMonth())
               list.add(b);
          }
```

```
D.
     for (Birthday b: bDays)
            if (m == b.getMonth())
                 list.add(b);
     for (Birthday b: bDays)
E.
            if (d == b.getDay())
                  list.add(b);
```