

II. Answer the following showing the memory simulation:

1) What is the output of the following code fragment? (1 pt) 1) _____

```
int limit, count;
limit = 8;
System.out.print("GR");
for (count = 10; count <= limit; count++)
    System.out.print("E");
System.out.print("NLEE");
```

MEMORY:
count limit

2) What is the output of the following code fragment? (1 pt) 2) _____

```
int limit, count;
limit = 10;
System.out.print("GR");
for (count = 8; count <= limit; count++)
    System.out.print("E");
System.out.print("NLEE");
```

MEMORY:
count limit

3) What is the output of the following code fragment? (1 pt) 3) _____

```
int total = 0;
int count = 2;
for ( ; count <= 5; count++)
    total = total + 2 * count;
System.out.print(total);
```

MEMORY:
count total

4) What is the output of the following code fragment? (1 pt) 4) _____

```
for (count = 1; count > 4; count++)
    System.out.print(count + " ");
System.out.println("End");
```

MEMORY:
count

5) Write the output of the following code fragment. (1 pt)

```
System.out.print("Hello ");
for (count = 1; count <= 3; count++); // Note the semicolon!
    System.out.print("Hi ");
System.out.print("Bye");
```

MEMORY:
count

5) _____

I. Answer the following:

- 1) How many iterations does the following **for** loop execute? (1 pt) 1) _____
for (**int** count = 0; count <= 10; count++)
doThis();
a) 1 b) 10 c) 11 d) none e) more than 11
- 2) How many iterations does the following **for** loop execute? (1 pt) 2) _____
(count is of type **int**.)
for (count = 11; count <= 10; count--)
doThis();
a) 1 b) 10 c) 11 d) none e) more than 11
- 3) How many iterations does the following **for** loop execute? (1 pt) 3) _____
(count is of type **int**.)
for (count = 0; count <= 10; count--)
doThis();
a) 1 b) 10 c) 11 d) none e) more than 11
- 4) Write the heading (the first line) of a **for** statement whose loop control variable **y** starts at 50, decrements (steps) by -2, and stops the loop when **y** reaches 10: (1 pt)

- 5) Rewrite the following **while** loop as a **for** loop. (All variables are of type **int**.) (1 pt)
count = -10;
while (count <= 10)
{
sum = sum + count;
count++;
}

over