

I. Answer the following showing the memory simulation:

1) What is the output of the following code fragment? (1.5 pts) 1) \_\_\_\_\_

```
int limit, count;
limit = 5;
System.out.print("GR");
count = 2;
do
{
    System.out.print("E");
    count++;
} while (count <= limit);
System.out.print("NLEE");
```

MEMORY:  
count                      limit

2) What is the output of the following code fragment? (1.5 pts) 2) \_\_\_\_\_

```
int limit, count;
limit = 2;
System.out.print("GR");
count = 5;
do
{
    System.out.print("E");
    count++;
} while (count <= limit);
System.out.print("NLEE");
```

MEMORY:  
count                      limit

3) What is the output of the following code fragment? (3 pts) 3) \_\_\_\_\_

```
int y = 5;
do
{
    switch (y)
    {
        case 1: System.out.print('L');
            break;
        case 2:
        case 4: System.out.print('E');
            break;
        case 5: System.out.print('H');
            break;
    }
    y--;
} while (y > 1);
System.out.print('P');
```

MEMORY:  
y

over

II. Answer the following

- 1) Rewrite the code segment as a **do while** loop eliminating any unnecessary statements and adding any necessary thing so that the code would work correctly. (3 pts)

```
System.out.print("Do you wish to continue?");
String answer = JOptionPane.showInputDialog("Type Y/N ");
char x = answer.charAt(0);
int count;
count++; // counts the number of inputs
while (x != 'Y' && x != 'N')
{
    System.out.print("Do you wish to continue?");
    answer = JOptionPane.showInputDialog("Type Y/N");
    x = answer.charAt(0);
    count++;
}
```

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- 2) To produce the output of: 2 4 6 8 (1 pt) 2) \_\_\_\_\_  
complete the loop condition below by filling in the blank.

```
int n = 0;
do
{
    n = n + 2;
    System.out.print(n + " ");
} while (n _____ );
```