

I. Answer the following showing the memory simulation:

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

Over

II. Answer the following

- 1) Rewrite the code segment as a **do while** loop *eliminating* any unnecessary statements. (4 pts)

```
char answer;  
String input;  
System.out.print("Do you wish to continue? ");  
input = JOptionPane.showInputDialog("Type Y/N ");  
answer = Character.parseChar(input);  
while (answer != 'n' && answer != 'N')  
{  
    System.out.print("Do you wish to continue? ");  
    input = JOptionPane.showInputDialog("Type Y/N ");  
    answer = Character.parseChar(input);  
}
```

- 2) Complete the loop condition below by filling in the blank to produce the output of: 2 4 6 8 (2 pts)

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