1. What gets printed? Please show all the output as it will appear, OR indicate “NO OUTPUT”, OR show the first 3 lines of output followed by “INFINITE LOOP.”

```java
int size = 10;

do {
    System.out.print(size + " => ");
    int category = size / 3;

    switch(category) {
        case 0:
            System.out.println ("X");
            // note: no break here
        case 1:
            System.out.println ("S");
            break;
        case 2:
            System.out.println ("M");
            break;
        case 3:
            System.out.println ("L");
    }

    size = size - 2;
} while (size >= 2);
```

Output:

```
10 => S
9 => M
8 => L
7 => M
6 => L
5 => M
4 => L
3 => M
2 => L
1 => M
```

```java
int a = 5;

do {
    System.out.println(a);
    a--;
} while (a < 5);
```

Output:

```
5
4
3
2
```

2. Suppose your code has already calculated the value of `num` as the number of dimes to give out as change. Rewrite the following output statement using the conditional operator, so that it prints “1 Dime” instead of “1 Dimes” in cases where `num` = 1:

```java
System.out.println ("Your change is " + num + "Dimes");
```

Rewritten:

```java
System.out.println ("Your change is " + (num == 1 ? "1 Dime" : num + "Dimes");
```
Quiz 6 3/30/17  Name:_____________________________  ___/20

1. What gets printed? Please show all the output as it will appear, OR indicate “NO OUTPUT”, OR show the first 3 lines of output followed by “INFINITE LOOP.”

```
int a = 8;
do {
    System.out.println(a);
    a--;
} while (a < 4);
```

```
String msg = “Keep out Russian spies”;  
for (int a = 5; a <= 17 ; a = a + 3)  
    System.out.print(msg.charAt(a));
```

2. Rewrite the following code to use the conditional operator to compute the value of the variable outcome (instead of if/else):

```
int a = rand.nextInt(100);
int b = rand.nextInt(100);
int number = scan.nextInt();
int outcome;
if  (number == a + b)
    outcome = 1;
else
    outcome = 0;
```