Quiz 4 2/22/18  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.”

```java
int a = 4;

do {
    a--;
    System.out.println(a);
} while (a > 4);
```

Output:
4

```java
String msg = "Feets dont fail me";

for (int a = 3; a <= 10 ; a = a + 2)
    System.out.print(msg.charAt(a));
```

Output:
t ot

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

```java
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;
```

```java
int outcome = (number == a + b? 1: 0);
```
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.print ("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 >= 0);
```

Output:
```
10 => L
8 => M
6 => M
4 => S
2 => XS
0 => XS
```

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");
```

```java
System.out.println ("Your change is " + num + "Dime" + (num != 1? "s" : ")");
```