1. Show what gets printed and rewrite using a while and if/else (i.e., eliminate the do and switch):

```java
int a = 6;
do {
    System.out.print(a + " is ");
    int category = a/3;
    switch(category)
    {
        case 0:
            System.out.println("red.");
            break;
        case 1:
            System.out.println("green.");
            break;
        default:
            System.out.println("yellow.");
            a--;
    }
} while (a > 1);
```

Using while and if/else:
```java
int a = 6;
while (a > 1)
{
    System.out.print(a + " is ");
    int category = a/3;
    if (category == 0)
        System.out.println("red.");
    else if (category == 1)
        System.out.println("green.");
    else
        System.out.println("yellow.");
    a--;
}
```

Output:
```
6 is yellow
5 is green
4 is green
3 is green
2 is red
```

2. Rewrite using while and the conditional operator (i.e., eliminate the for and if/else):
```java
for (int a = 0; a < 5; a++)
{
    System.out.print(" This question is worth " + a);
    if (a == 1)
        System.out.print(" point. ");
    else
        System.out.print(" points. ");
}
```

Using while and conditional operator:
```java
int a = 0;
while (a < 5)
{
    System.out.println(" This question is worth " + a +
    (a == 1 ? " point. ": " points. "));
    a++
}
1. Show what gets printed and rewrite using if/else:

```java
char ch = 's';
System.out.print("The answer is ");
switch(ch)
{
    case 'y': case 'Y':
        System.out.println("positive.");
        break;
    case 'N': case 'n':
        System.out.println("negative.");
        break;
    default:
        System.out.println("unclear.");
}
```

Using if/else:
```java
char ch = 's';
System.out.print("The answer is ");
if (ch == 'y'|| ch == 'Y')
    System.out.println("positive.");
else if (ch == 'n'|| ch == 'N')
    System.out.println("negative.");
else
    System.out.println("unclear.");
```

2. Show what gets printed and rewrite using while and if/else (i.e., eliminate the for and conditional operator):

```java
for (int a = 0; a < 5; a++)
    System.out.println(a + (a % 2 == 0? " red ": " green "));
```

Using while and if/else:
```java
int a = 0;
while (a < 5)
{
    System.out.print(a);
    if (a % 2 == 0)
        System.out.println(" is red");
    else
        System.out.println(" is green");
}
```