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Tutorial 4

1.

- Assignment operator instead of Comparison operator in 'numNeighbours = 4'
- '++numNeighbours' is used outside of the if statement
- The if else statement is not defined using curly brackets

2.

```
No, I'm here!  
No, actually, I'm here!
```

3. .

4.

```
if (taxCode == 'T')  
    price += taxRate / 100 * price;  
  
if (opCode == 1)  
{  
    double X, Y;  
    scanf("%lf %lf", &X, &Y);  
    double sum = X + Y;  
    printf("Sum: %.2lf\n", sum);  
}  
  
if (currentNumber % 2 == 1)  
    currentNumber = 3 * currentNumber + 1;  
else  
    currentNumber = currentNumber/2;  
  
if (year % 4 == 0 && (year % 100 != 0 || year % 400 == 0))  
    leapYear = true;  
  
if (distance <= 100)  
    cost = 5.00;  
else if (distance <= 500)  
    cost = 8.00;  
else if (distance < 1000)  
    cost = 10.00;  
else  
    cost = 12.00;
```