1.

if numNeighbors >= 3 || numNeighbors = 4

++numNeighbors;

printf("You are dead! \n " );

else

--numNeighbors;

2.

int number = 4;

double alpha = -1.0;

if (number > 0)

if (alpha > 0)

printf("Here I am!\n");

else

printf("No, I’m here!\n");

printf("No, actually, I'm here!\n");

3.

if (doesSignificantWork) {

if (makesBreakthrough)

nobelPrizeCandidate = true;

else

nobelPrizeCandidate = false;

}

else if (!doesSignificantWork)

nobelPrizeCandidate = false;}

4.

Write if statements to do the following:

– If character variable taxCode is ’T’, increase price by adding the taxRate percentage of price to it.

– If integer variable opCode has the value 1, read in double values for X and Y and calculate and print their sum.

– If integer variable currentNumber is odd, change its value so that it is now 3 times currentNumber plus 1, otherwise change its value so that it is now half of currentNumber (rounded down when currentNumber is odd).

– Assign true to the boolean variable leapYear if the integer variable year is a leap year. (A leap year is a multiple of 4, and if it is a multiple of 100, it must also be a multiple of 400.)

– Assign a value to double variable cost depending on the value of integer variable distance as follows:

Distance Cost

0 through 100 5.00

More than 100 but not more than 500 8.00

More than 500 but less than 1,000 10.00

1,000 or more 12.00