1. Consider the following recursive function:

void recEx1(int x){

if (x>0){

if (x % 2 == 0){

recEx1((x-3)/2);

cout << x << “ “;

}

else{

recEx1((x-4)/2);

cout << x << “ “;

}

}

else{

cout<<”Negative Number!”;

}

}

What is the output of the following statements?

recEx1(28) : Negative Number! 4 12 28

recEx1(148): negative Number! 5 15 34 72 148

recEx1(98): Negative Number!2 8 21 47 98

recEx1(-30): Negative Number!

2. Consider the following function:

int recEx2(int x){

if (x<=0)

return 0;

else if (x == 1)

return 2;

else

return (recEx2(x-1)+recEx2(x-2)+recEx2(x-3));

}

What is the output of the following statements?

a. cout << recEx2(-2) << endl; 0

b. cout << recEx2(3) << endl; 4

c. cout << recEx2(4) << endl; 8

d. cout << recEx2(9) << endl; 162