**Recursion Test 1**

1. What is returned by the method call: **rec(4)** ?

public int rec(int n)

{

if(n <= 1)

return 1;

else

return n \* rec(n - 1);

}

1. 24 d. 256
2. 6 e. 1
3. 16
4. What is returned by the method call: **meow (5)** ?

public int meow(int n)

{

int ans = 0;

if(n <= 2)

ans = 2;

else

ans = meow(n - 1) + (n - 1);

return ans;

}

1. 0 d. 7
2. 2 e. 11
3. 16
4. Consider the following method.

public int ruff(int n)

{

if(n <= 1)

return 0;

else

return n + ruff(n - 1) + ruff(n - 2);

}

What value does **ruff(6)** return?

1. 21 d. 11
2. 2 e. 66
3. 38
4. Consider the following method.

public int moo(int a, int b)

{

if(a <= b)

return a;

else

return b + moo(a-1, b+1);

}

What value does **moo(7, 4)** return?

1. 4 d. 12
2. 14 e. 28
3. 9
4. Consider the following method.

public String baa(String s, int x)

{

if( x <= 0 )

return s;

else

return s + baa(s, x - 1);

}

Which of the following is output as a result of the call **baa("sheep", 5).**

1. sheepsheepsheepsheepsheepsheep d.peehs
2. sheepsheepsheepsheepsheep e. sssss
3. sheep
4. Consider the following method.

public int oink(int n)

{

if(n <= 1)

return 1;

else if(n % 2 == 0)

return n - oink (n - 1);

else

return n + oink (n - 1);

}

What value does **oink(8)** return?

1. 0 d. 12
2. 1 e. 33
3. 8