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## COP 3223 Sec 2: Fall'09 C Programming Test 1 Practice (50 points)

1. (10 points)

Write down the printed output of this program. Mark your blank chars too.

#### WRITE YOUR OUTPUT BELOW HERE

```
#include <stdio.h>
                                   Out Line 1 |
int main(void)
      float f;
      int a,i;
                                   Out Line 2
      a = 0;
      a = a + 1;
      printf ("A= %d\n", a);
                                   Out Line 3 |
      a += 2;
      a--;
                                   Out Line 4 |
      a++;
      printf ("B= %d\n", a);
      i=2;
      f=5.0;
                                   Out Line 5
      printf ("F= %f\n", f/i);
      a=5;
      printf ("C= %d\n", a/i);
                                   Out Line 6
      return 0;
}
```

#### 2. (10 points)

Write down the printed output of this program. Mark your blank chars too.

#### WRITE YOUR OUTPUT BELOW HERE

```
#include <stdio.h>
                                   Out Line 1
int main(void)
     float f;
      int a,i;
                                   Out Line 2
      a = 0;
      a = a + 1;
      printf ("A= %4d\n", a);
                                   Out Line 3
      a += 2;
      a = a \% 2
      a++;
                                   Out Line 4
      printf ("B= %5d\n", a);
      i=2;
      f=5.0;
                                   Out Line 5 |
      printf ("F= %6.2f\n", f/i);
      return 0;
}
```

## ENTER YOUR TRACE BELOW

		Prog	1	1	1	print or
		Line #	a	b		other action
1. #include <stdio.h></stdio.h>			I	I	I	
2.			I	I	I	
3.			l			l
<pre>4. int main(void)</pre>			I	I	I	
5. {			1	1	1	
6.	int a=1 , b=4, c=3;		I	I	l	l
7.	a += 2;		1	1	1	
8.	if (a <= b)		[	[	[	
9.	{				[	
10.	if (b <= c)		l	l		l
11.	<pre>printf ("c= %d\n", c);</pre>		1	1	1	
12.	else				1	
13.	printf ("c= $%d\n$ ",a+c);		l	l	l	
14.	}		1	1	1	
15.	else		1	1	1	
16.	printf ("b= $d\n$ ", b);		l	l	l	l
	b -= 1;				[	
18.	if (a <= b)		I	I	I	
19.	printf ("a= %d\n", a);		l	l	l	l
20.	else		I	I	I	
21.	<pre>printf ("b= %d\n", b);</pre>		I	I	I	
22.			l	l	l	l
23.			I	I	1	
24.	return 0;		1	l	l	
25. }			!			
						<u> </u>  -
				<u> </u>	<u> </u>	<u> </u>
			l			l

# ASSUME keyboard input IS: 2

### ENTER YOUR TRACE BELOW

	Prog				print or
	Line #	l a I	1 	l n	other action
1. #include <stdio.h></stdio.h>			   	   	
<ul><li>2.</li><li>3.</li></ul>					
<ol> <li>int main(void)</li> </ol>		I 	I 	 	l 
5. {		 	 		'
6. int a, i, n;		l	l	l	l
7. $a = 1; i = 1;$		l	l	l	
8. scanf("%d",&n);		ļ			
9. while (i <= n)					
10. { 11. a = a * a + i * i;		 	 	 	 
12. i++;		I 	 	 	l 
13. if (i <=n)		' 	' 	 	'
14. printf ("b= %d\n", a)	;				
15. }					
16. for (i=5; i>3; i)		l	l	l	l
17. {		<u> </u>	<u> </u>	<u> </u>	
18. printf ("c= %d\n",a+i);					
19. } 20. return 0;		 	 	 	 
<pre>20. return 0; 21. }</pre>		 	 	 	 
21. )		! 	! [	! [	
		l	l	l	l
		ļ			
		! 	1 	1 	I 
		 	 		'
		l	l	l	l
		l	l	l	
					1
		 	 	 	l I
		 	 	 	'
		l	l	l	
		l	l	l	l
		<u> </u>	<u> </u>	<u> </u>	
		l			l