

## CSC 111 Fall 2013 Midterm 1

		This is a closed	books, closed	notes no gade	ets and no elec	tronic devices midterm
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Leave through the front door.

1 How many forma	al parameters are t	there in this function	on header int	f(int s,	float	x)
0	0					
	1					
	2		6			
	more than 2					

2. Consider the following syntactically correct C program.

#ind	clude	<st< th=""><th>dic</th><th>o.h</th><th>1&gt;</th><th></th><th></th></st<>	dic	o.h	1>		
#ind	clude	<st< td=""><td>dli</td><td>b.</td><td>h&gt;</td><td></td><td></td></st<>	dli	b.	h>		
int	main	voi	d)	{			
	prir	itf	"CS	С	111\	n"	);
	retu	irn	EXI	T	SUC	CES	ss;
}							

How many function names appear in this program? Check the correct circle.

$\bigcirc$	0	
$\bigcirc$	1	( 1 )
$\bigcirc$	2	6
$\bigcirc$	more than 2	

For the following statements, check the correct circle.
The C preprocessor



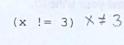
compiles C programs

builds an application or an executable checks for semantic errors

includes text files using #include and substitutes text using #define directives

4. What are the values of the following C expressions? Assume the following C declarations and initializations:

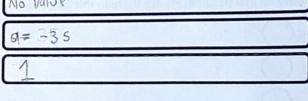
int 
$$x = 3$$
;  
int  $a = 1$ ;



(0>x | | x>9) (a += 2\*(a - 19)) 9= a+ -36 (-18) ((x\*17) & 2) 51 =

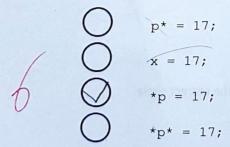
9= 9+ -36

10	Value					
10	Value	draign;	di san	रामां व	nese.	





5. Given the following two declarations and initializations, how do you store the value 17 into the integer variable x using pointer p? Check the correct circle.



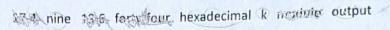
6. How many proper identifiers are in each line according to C syntax? Enter the number for each line in the circle at the front of the line.

W S



ABC aBc systematic B777 k 741 int mega %d

These identifiers with a file with



Check for C Comments keywords such as for white long

7. What is the output of the following syntactically correct C program?

10

```
#include <stdio.h>
#include <stdlib.h>
int main(void) {
    int k = 21;
    while (k < 35) {
        if (k % 2 == 0)
            printf("%d\n ", k);
        k = k + 3;
    }/*while*/
    printf("Common sense!\n");
    return EXIT_SUCCESS;
} /* main */</pre>
```

Output:

30 Common senso!

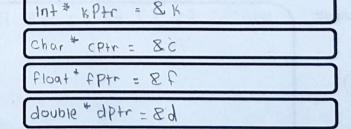
8. Given the following C declarations and initializations, create four pointer variables to point to these four variables.

char c = 'A';

float f = 3.14;

double d = 2.81;

int k = 17;





9. What is the output of the following syntactically correct C program?

```
#include <stdlib.h>
int main(void) {
    int k = 77;
    while (k > 47) {
        printf("%d ", k);
        k = k - 10;
    }/*while*/
    printf("Finished\n");
    return EXIT SUCCESS;
```

#include <stdio.h>

Output:

77 67 57 Finished

77 67 57 47

} /\* main \*/

10. What is the output of the following syntactically correct C program?

```
#include <stdio.h>
  #include <stdlib.h>
  /* function prototypes */
 int main(void);
  void f1(void);
  void f2(void);
 void f3(void);
  void f4(void);
 void f1() { printf("f1 "); f2(); }
  void f2() { printf("f2 "); f4(); }
 void f3() { printf("f3 "); f4(); }
  void f4() { printf("f4 "); }
___int main(void) {
    printf("main ");
    f1();
    f3();
printf("Bye\n");
    return EXIT SUCCESS;
```

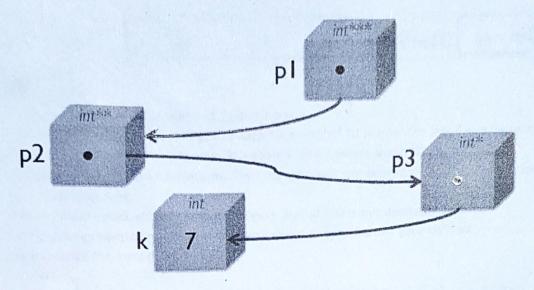
**Output:** 

main f1 f2 f4 f3 f4 Bye

10



11. In the box below, realize the following memory configuration exactly using C variable declarations and pointer assignments? Then store 17, 18, and 19 into variable k using pointers p1, p2, and p3, respectively.



7