C Basics Part 1 QUESTIONS

Total points 60/60

https://www.facebook.com/groups/embedded.system.KS/

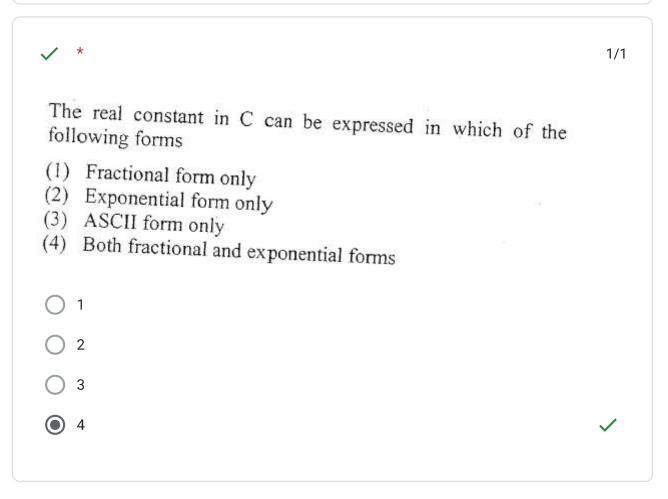


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14 of 14 points

✓ assume that a is int with 2 bytes *	1/1
The expression, $a = 30 * 1000 + 2768$; evaluates to	
(1) 32768 (2) -32768 (3) 113040 (4) 0	
O 1	
2	✓
○ 3	
O 4	

*	1/1	
 (1) mes = 123.56; (2) con = 'T' * 'A'; (3) this = 'T' * 20; (4) 3 + a = b; 		
O 1		
O 2		
○ 3		
4	✓	



The expression x = 4 + 2 % -8 evaluates to

(1) -6
(2) 6
(3) 4
(4) None of the above

1
2
3
4

✓ What would be the output of the following programs: *

int i = 2, j = 3, k, l;
float a, b;
k = i / j * j;
l = j / i * i;
a = i / j * j;
b = j / i * i;
printf ("%d %d %f %f", k, l, a, b);

○ 022.00.0

○ 022.02.0

○ 020.02.0

○ 202.00.0

✓ 202.00.0

✓ 202.00.0

1/1

Which of the following shows the correct hierarchy of



- (1) (), **, * or /, + or -

- (2) (), **, *, /, +, -(3) (), **, /, *, +, -(4) (), / or *, or +

1/1

In b = 6.6 / a + (2 * a + (3 * c) / a * d) / (2 / n); which operation will be performed first?

- (1) 6.6/a
- (2) 2 * a
- (3) 3 * c
- (4) 2/n

Evaluate the following expressions *						
	-1	10	2.5	Score		
g = big / 2 + big * 4 / big - big + abc / 3; (abc =1.5, big = 3, assume g to be a float)	0	0		1/1	✓	
on = ink * act / 2 + 3 / 2 * act + 2 + tig; (ink = 3, act =2, tig = 3.2, assume on to be an int)	0		0	1/1	✓	
s = qui * add / 4 - 6 / 2 + 2 / 3 * 6 / god; (qui = 2, add = 4, god = 3, assume s to be an int)	•	0	0	1/1	✓	



C programs are converted into machine language with the help of

(1) An interpreter
(2) A compiler
(3) An operating system
(4) None of the above

The expression, a = 7/22 * (3.14 + 2) * 3/5; evaluates to

(1) 8.28
(2) 6.28
(3) 3.14
(4) 0

1

2

3

4

✓ Which of the following are invalid variable names ? *	1/1	
BASICSALARY		
#MEAN	✓	5
group		
422	✓	
hELLO		
queue		
FLOAT		
✓ Plot # 3	~	
basic		
✓ *	1/1	
If a is an integer variable, a = 5 / 2; will return a value (1) 2.5 (2) 3 (3) 2 (4) 0		
O 1		
O 2		
3	✓	
O 4		

C Basics tricks

!

9 of 9 points

✓ Predict the output of following program. Assume that the numbers are *1/1 stored in 2's complement form.

```
9
```

```
#include<stdio.h>
int main()
{
   unsigned int x = -1;
   int y = ~0;
   if (x == y)
        printf("same");
   else
        printf("not same");
   return 0;
}
```

same



```
#include <stdio.h>
int main()
{
    char a = '\012';
    printf("%d", a);
    return 0;
}

(A) Compiler Error

(B) 12

(C) 10

(D) Empty
```

```
Assume that the size of char is 1 byte and negatives are stored in 2's
complement form

#include<stdio.h>
int main()
{
    char c = 125;
    c = c+10;
    printf("%d", c);
    return 0;
}

135
    +INF
    -121
    -8
```

```
#include <stdio.h>
int main()
{
   int a = 10, b = 20, c = 30;
   if (c > b > a)
        printf("TRUE");
   else
        printf("FALSE");
   return 0;
}

TRUE

FALSE

Output is compiler dependent
```



```
#include <stdio.h>
int main()
{
    int a = 0;
    int b;
    a = (a == 1));
    printf("%d", a);
    return 0;
}

O

Big negative number

-1
```



```
✓ Predict the output *
                                                                              1/1
#include <stdio.h>
int main()
   float c = 5.0;
   printf ("Temperature in Fahrenheit is %.2f", (9/5)*c + 32);
   return 0;
}
     (A) Temperature in Fahrenheit is 41.00
    (B) Temperature in Fahrenheit is 37.00
     (C) Temperature in Fahrenheit is 0.00
     (D) Compiler Error
✓ Predict the output of the below program: *
                                                                              1/1
#include <stdio.h>
int main()
     printf("%d", 1 << 2 + 3 << 4);</pre>
     return 0;
```



(A) 112

(B) 52

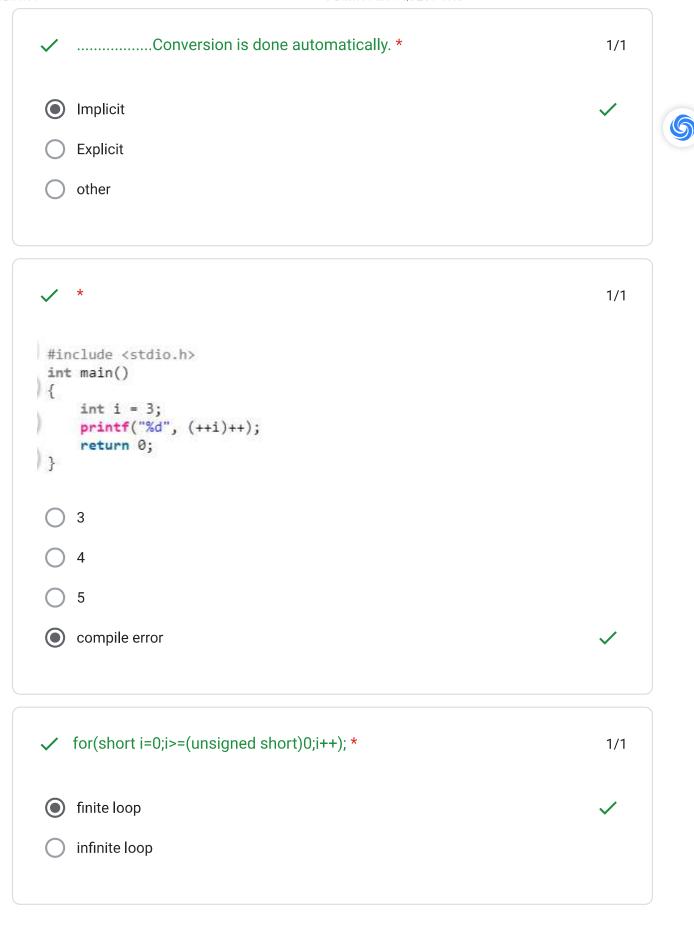
(C) 512

(D) 0

```
1/1
  #include <stdio.h>
  int main()
       int i = (1, 2, 3);
       printf("%d", i);
       return 0;
  }
     Compile time error
     Garbage value
هانت :) اضحك كده (:
                                                                       37 of 37 points
    (Error in execution) is
                                                                                  1/1
     Syntax error
     Runtime error
     Logical error
     Semantic error
      Linker error
```

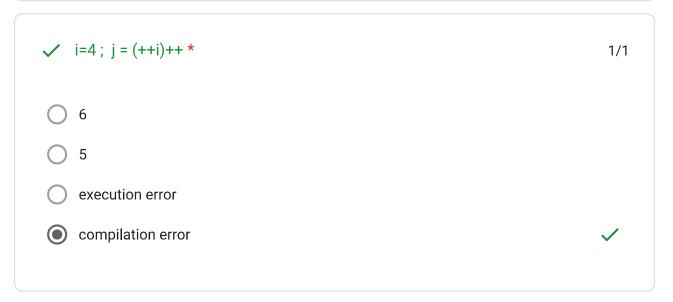
✓ Which of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of code can be used to set specific bit of the following lines of the	of A * 1/1
A &= ~(1 << bit)	
(A & 1 << bit) != 0	
A = 1 << bit	✓
A ^= 1< bit	
✓ Conversion of smaller number to larger number is conversion.Conversion of integer type data to float.float i=0;integer j=10;i=j;	1/1 t
Implicit	✓
Explicit	
Other	
✓ int i=4 , j=7 , k ; i++ &&1 ;	x= j *1/1
○ k=7	
i=5	
i=4	
	✓





B

✓ int X, i=4, j=7; X=j i++ && 1 *	1/1
X=1, i =4	✓
X=7, i =4	
X=7 , i =5	
ompile error	





✓ Which of the following lines of code can be used to reset specific bit	of A * 1/1
 A &= ~(1 << bit) (A & 1 << bit) != 0 A = 1 << bit A & ~B 	
✓ Conversion of larger number to smaller number is	*1/1
ImplicitExplicitother	✓
<pre> ✓ for(int i=0;i>=0;i++); * </pre>	1/1
finite loopinfinite loop	✓

```
✓ int a=b=c=1; *

                                                                1/1
   a =1 and b =1 and c=1
   Compiler error
   runtime error
                                                                1/1
 void main()
 {
        int i=0, j=1, k=2, m;
        m = i++ || j++ || k++;
        printf("%d %d %d %d", m, i, j, k);
   1123
   1122
   0122
   0123
    None of these
```

 \checkmark int i=0 , j=1 , k=2 , m; m= i++ || *****1/1 j++ || k++; printf("%d %d %d %d", i, j, k, m); 1231 1221 1222 1211 √ a=b=c= 10; if (a==b==c); * 1/1 true False for(unsigned int i=0;i>=0;i++); * 1/1 finite loop



infinite loop

Error in the result of program	1/1
Syntax error	
Runtime error	
Logical error	~
Semantic error	
C Linker error	
(Error in writing syntax) is	1/1
Syntax error	~
Runtime error	
O Logical error	
Semantic error	
C Linker error	

```
1/1
#include<stdio.h>
int main(void)
  int a = 1;
 int b = 0;
  b = a++ + a++;
  printf("%d %d",a,b);
  return 0;
    36
    compiler Dependent
    34
    33
unsigned short i = 0xFFFF;
                                                        while (i++!=0)
                                                                           1/1
    printf("%d",++i);
    0xFFFF .....0x0
    infinite loop
    Finite loop
```

```
what is the output ...?

#include "stdio.h"

void main ()
{
    int i = 0x10+010+10;
    printf ("%x",i); // ("i= %d", i);
}

0 22
    34
    30
    38
```

```
Predict the output of the following code?

#include<stdio.h>
int main()
{
   int i = 10;
   printf("%d, %d\n", ++i, i++);
   return 0;
}

12 10

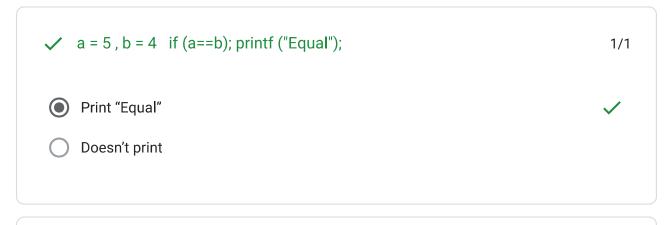
12 12

12 11

Output may Vary from Compiler to Compiler
```

~	char ch = 'a' = 97; switch (ch) { case 97: printf("97"); break; case 'a': printf ("a"); break;}	*1/1	
0	97		6
0	a		
0	97 a		
•	compilation error	✓	
0	runtime error		
~	type casting is to *	1/1	
0	Implicit		
•	Explicit	✓	
0	other		

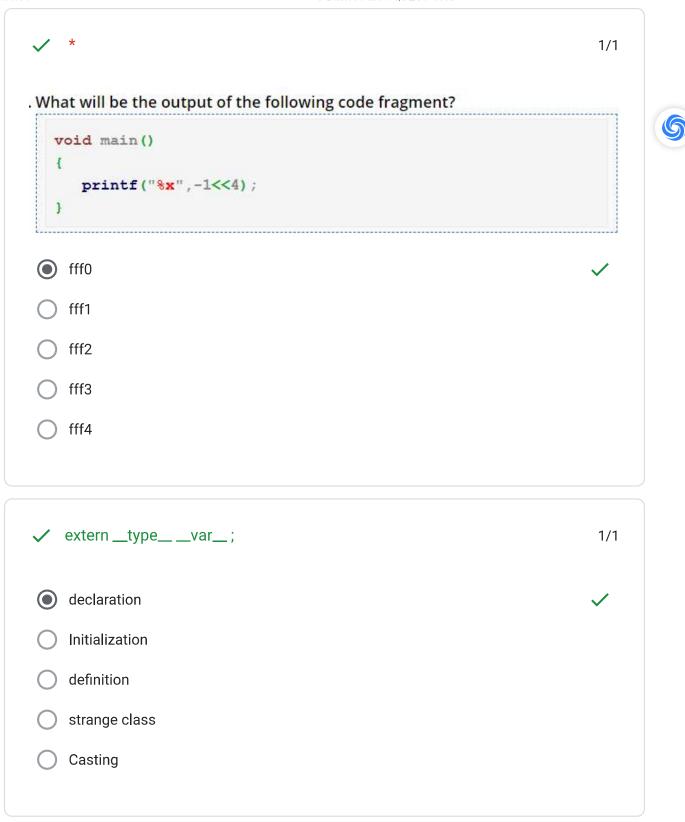




✓ int x=3;
float y=3.0;
if(x==y) {printf ("True");}
✓
will not print true

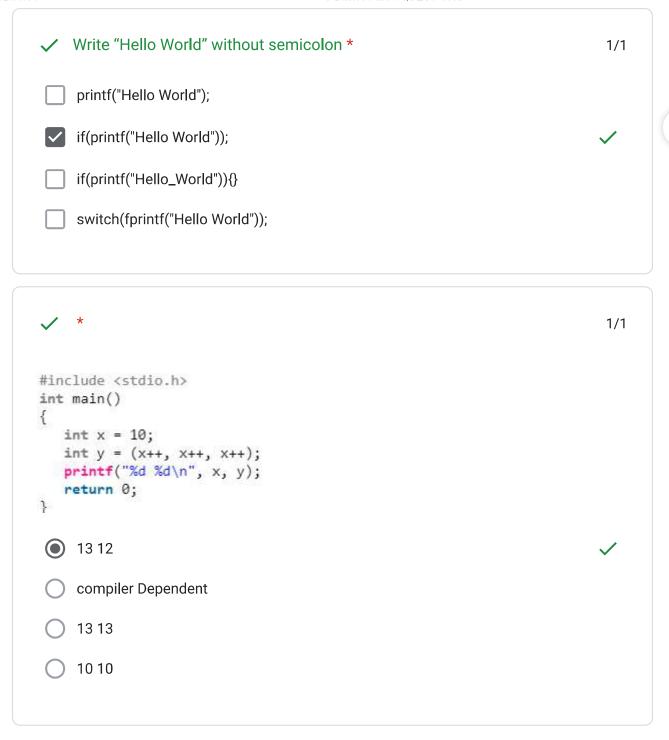


✓ int i=2, j=5, k=10; a = i >1? j<1 k<1? 100:200:300;	*1/1	
a= 200	✓	9
a = 100		
a= 300		
a = 0		
Conversion is done programatically. *	1/1	
O Implicit		
Explicit	✓	
other		





 Syntax error Runtime error Logical error Semantic error Linker error ✓ Which of the following lines of code can be used to toggle specific bit of A &= ~(1 << bit) (A & 1 << bit)!= 0 A = 1 << bit A & ~B 	
 Logical error Semantic error Linker error ✓ Which of the following lines of code can be used to toggle specific bit of *1/1 A A &= ~(1 << bit) (A & 1 << bit)!= 0 A = 1 << bit 	
 Semantic error ✓ Which of the following lines of code can be used to toggle specific bit of A A &= ~(1 << bit) (A & 1 << bit)!= 0 A = 1 << bit 	
 ▶ Linker error ✓ Which of the following lines of code can be used to toggle specific bit of *1/1 A A &= ~(1 << bit) (A & 1 << bit)!= 0 A = 1 << bit 	
 ✓ Which of the following lines of code can be used to toggle specific bit of *1/1 A A &= ~(1 << bit) (A & 1 << bit)!= 0 A = 1 << bit 	
A A &= ~(1 << bit) (A & 1 << bit)!= 0 A = 1 << bit	
(A & 1 << bit) != 0 A = 1 << bit	
A = 1 << bit	
○ A & ~B	
✓ int i=1; if (i++&&(i==1)) *	
ondition true	
false	



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