

C Basics Part 1 QUESTIONS

Total points 60/60

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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

- ☐ 1
- ☒ 2
- ☐ 3
- ☐ 4





1/1

Which of the following statement is wrong

- (1) `mes = 123.56 ;`
- (2) `con = 'T' * 'A' ;`
- (3) `this = 'T' * 20 ;`
- (4) `3 + a = b ;`

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4



1/1

The real constant in C can be expressed in which of the following forms

- (1) Fractional form only
- (2) Exponential form only
- (3) ASCII form only
- (4) Both fractional and exponential forms

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4





1/1

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: *

1/1

```
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 );
```

- ☐ 0 2 2.0 0.0
- ☐ 0 2 2.0 2.0
- ☒ 0 2 0.0 2.0
- ☐ 2 0 2.0 0.0





1/1

Which of the following shows the correct hierarchy of arithmetic operations in C

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

- ☐ 1
- ☐ 2
- ☐ 3
- ☒ 4



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) $2 / n$

- ☐ 1
- ☐ 2
- ☒ 3
- ☐ 4



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)	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	1/1	✓
on = ink * act / 2 + 3 / 2 * act + 2 + tig ; (ink = 3, act =2, tig = 3.2, assume on to be an int)	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	1/1	✓
s = qui * add / 4 - 6 / 2 + 2 / 3 * 6 / god ; (qui = 2, add = 4, god =3, assume s to be an int)	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	1/1	✓





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

- ☐ 1
- ☒ 2
- ☐ 3
- ☐ 4



1/1

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

✓

☐ 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

☐ 1

☐ 2

☒ 3

✓

☐ 4



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

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

- ☒ same
- ☐ not same



✓ *

1/1

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

- ☐ (A) Compiler Error
- ☐ (B) 12
- ☒ (C) 10
- ☐ (D) Empty





*

1/1

```
#include <stdio.h>
int main()
{
    int i = 5, j = 10, k = 15;
    printf("%d ", sizeof(k /= i + j));
    printf("%d", k);
    return 0;
}
```

- ☐ 41
- ☒ 4 15
- ☐ 2 1
- ☐ compile error



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

*1/1

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

- ☐ 135
- ☐ +INF
- ☒ -121
- ☐ -8





1/1

```
#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
- ☐ Compiler Error
- ☐ Output is compiler dependent





1/1

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

- ☐ 0
- ☒ 1
- ☐ 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);
    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;
}
```

- ☐ 1
- ☒ 3
- ☐ 2
- ☐ 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 A * 1/1

- ☐ A &= ~(1 << bit)
- ☐ (A & 1 << bit) != 0
- ☒ A |= 1 << bit
- ☐ A & ~B
- ☐ A ^= 1 << bit



✓ Conversion of smaller number to larger number isconversion. Conversion of integer type data to float. float i=0; int j=10; i=j; 1/1

- ☒ Implicit
- ☐ Explicit
- ☐ other



✓ int i=4, j=7, k; i++ &&1; k= j|| *1/1

- ☐ k=7
- ☐ i=5
- ☐ i=4
- ☒ k=1



✓Conversion is done automatically. *

1/1

- ☒ Implicit
- ☐ Explicit
- ☐ other



✓ *

1/1

```
#include <stdio.h>
int main()
{
    int i = 3;
    printf("%d", (++i)++);
    return 0;
}
```

- ☐ 3
- ☐ 4
- ☐ 5
- ☒ compile error



✓ for(short i=0;i>=(unsigned short)0;i++); *

1/1

- ☒ finite loop
- ☐ infinite loop



✓ `int X, i=4, j=7; X=j || i++ && 1` *

1/1

- ☒ X=1 , i =4
- ☐ X=7 , i =4
- ☐ X=7 , i =5
- ☐ compile error



✓ `i=4 ; j = (++i)++` *

1/1

- ☐ 6
- ☐ 5
- ☐ execution error
- ☒ compilation error



✓ `__type__ __var__ = __value__ ;`

1/1

- ☐ declaration
- ☒ Initialization
- ☐ definition
- ☐ strange class
- ☐ Casting



✓ 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
conversion.float k=123.456int i= (int) k

- ☐ Implicit
- ☒ Explicit
- ☐ other



✓ for(int i=0;i>=0;i++); * 1/1

- ☒ finite loop
- ☐ infinite 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);
}
```

- ☐ 1 1 2 3
- ☒ 1 1 2 2
- ☐ 0 1 2 2
- ☐ 0 1 2 3
- ☐ None of these



✓ `int i=0 , j=1 , k=2 , m;
j++ || k++;
%d", i , j , k , m);`

`m= i++ ||
printf("%d %d %d` *1/1

☐ 1 2 3 1

☒ 1 2 2 1

☐ 1 2 2 2

☐ 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
- ☐ Linker error



✓ (Error in writing syntax) is

1/1

- ☒ Syntax error
- ☐ Runtime error
- ☐ Logical error
- ☐ Semantic error
- ☐ 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;
}
```

- ☐ 3 6
- ☒ compiler Dependent
- ☐ 3 4
- ☐ 3 3



unsigned short i = 0xFFFF;
printf("%d",++i);

while (i++!=0)

1/1

- ☐ 0xFFFF0x0
- ☒ infinite loop
- ☐ Finite loop



✓ what is the output ...?

1/1

```
#include "stdio.h"

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

- ☒ 22
- ☐ 34
- ☐ 30
- ☐ 38



✓ *

1/1

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

- ☐ 97
- ☐ a
- ☐ 97 a
- ☒ compilation error
- ☐ runtime error



✓ type casting is to *

1/1

- ☐ Implicit
- ☒ Explicit
- ☐ other





✓ a = 5 , b = 4 if (a==b); printf ("Equal");

1/1

☒ Print "Equal"



☐ Doesn't print

✓ int x=3;

float y=3.0;

1/1

if(x==y) {printf ("True");}

☒ print 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
- ☐ a = 100
- ☐ a = 300
- ☐ a = 0



✓Conversion is done programatically. *

1/1

- ☐ Implicit
- ☒ Explicit
- ☐ other





*

1/1

. What will be the output of the following code fragment?

```
void main()  
{  
    printf("%x", -1<<4);  
}
```

- ☒ fff0
- ☐ fff1
- ☐ fff2
- ☐ fff3
- ☐ fff4



extern __type__ __var__;

1/1

- ☒ declaration
- ☐ Initialization
- ☐ definition
- ☐ strange class
- ☐ Casting



✓ Cannot be generated the link of wrong function prototyping, or incorrect header files 1/1

- ☐ 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 *1/1

- ☐ $A \&= \sim(1 \ll \text{bit})$
- ☐ $(A \& 1 \ll \text{bit}) \neq 0$
- ☐ $A \mid= 1 \ll \text{bit}$
- ☐ $A \& \sim B$
- ☒ $A \wedge= 1 \ll \text{bit}$



✓ `int i=1; if (i++&&(i==1))` * 1/1

- ☐ condition true
- ☒ false



✓ Write "Hello World" without semicolon *

1/1

- ☐ printf("Hello World");
- ☒ if(printf("Hello World"));
- ☐ if(printf("Hello_World")){}
- ☐ switch(fprintf("Hello World"));



✓ *

1/1

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

- ☒ 13 12
- ☐ compiler Dependent
- ☐ 13 13
- ☐ 10 10



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