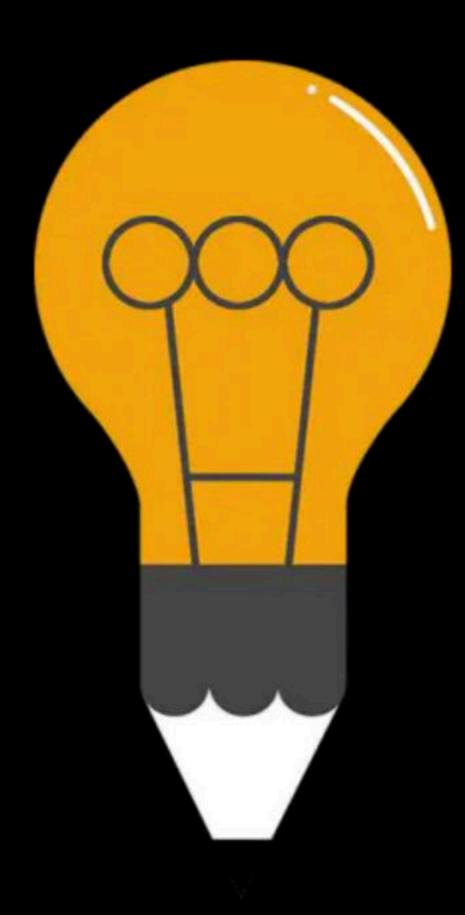


Special class



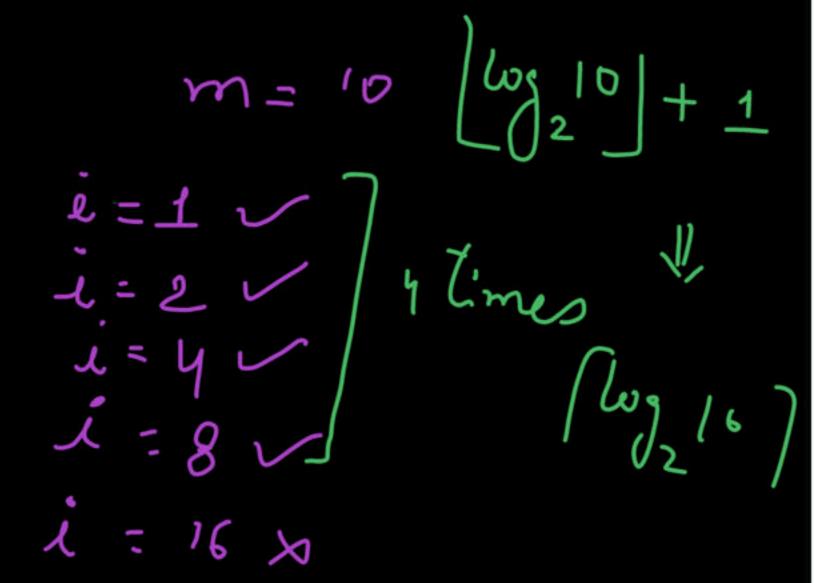
C-Language Practice Questions

By: Vishvadeep Gothi

What is the output of the following programs-

```
void main(){
int m, count=0;
for(int i=1;i<=m(i*=2))
{
    count+=1;
}
</pre>

Count = 0;
for(int i=1;i<=m(i*=2))</pre>
```



(a) count=ceil(log m) - 1
 (b) count=floor(log m) + 1
 (c) count=ceil(log m)
 (d) count=floor(log m) - 1
 (e) None of the above

$$m = 16$$
 $i = 1$
 $i = 2$
 $i = 4$
 $i = 8$
 $i = 16$

$$\left[\frac{\log_2 16}{2} + \frac{1}{2} \right]
 \left[\frac{\log_2 (3.9)}{\log_2 (3.9)} \right] = 3$$

$$floor (3.01) = 3$$

$$floor (-3.2) = -4$$

fave(i=0;i=4;i++)

y pintf("1.1", i);

What is the output of the following programs-

13,13,16,507

```
void main(){
    int i,j,k,count=0,n;
    for(i=0;i<=n;i++){ 13 times
    for(j=0;j<=n;j++){ 10 * 13 times
    for(k=n/3;k<=n;k+=n/3) 13 \pm13 \pm 3 \pm 7 \pm1 \pm2

printf("%d,%d,%d,%d,%d",i,j,k,©;
}
```

$$\frac{1}{3} = \frac{1}{2} = \frac{1}{3}$$
 $\frac{1}{3} = \frac{1}{2} = \frac{1}{3}$
 $1 = \frac{1}{2} = \frac{1}{3}$

What is the output of the following programs-

```
for(int i=k, j=m; k<=n && j>=t; k++, j--)
{
}
```

Assume initially k<n and m>t. When will the loop terminate?

- (a) $k \le n || j > = t$
- (b) $k \le n \&\& j \ge t$
- **√**e) k>n || j<t
 - (d) k>n && j<t

What is the output of the following programs-

```
void main(){
int i,j=1,count=0,n;
for(i=n;i>0;i/=2)
count=count+1;
while(j < n)
county conne - ;
j*=2;
printf("%d",count); 1
```

```
n=16

j=2 X 8 16

cont= $2 x x x x x x x x 1

i=48 x x x 0
```

What is the output of the following programs-

```
void main(){
int i, j, count=0, n;
                                n = 16
for() i=1; i<n; i*=2){
for(j=1; j<n; j*=2){
                               i = x2/8/6
count++;
reak;
                               count = & XZZYY3
do
Count--;
} while(0);
printf("%d,%d,%d",i, j, count); 16, 1, 3
```

Which of the following is not valid identifier?

- A. Abc_123
- B. _123Abc
- C. Abc123_
- D. Abc@123

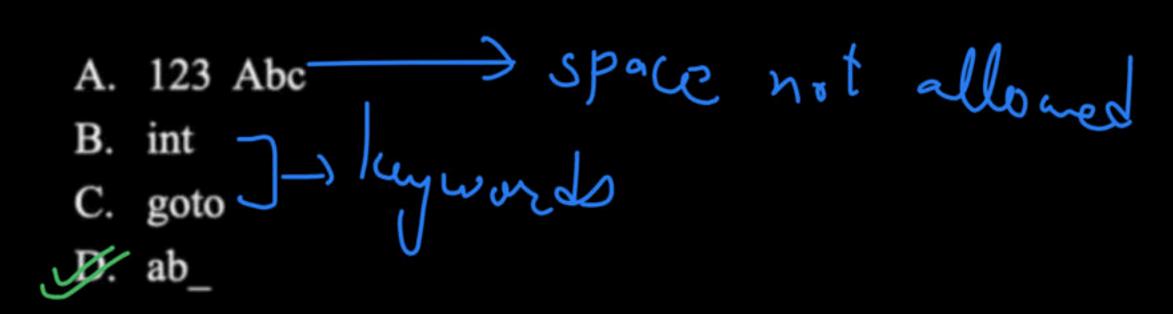
Which of the following is valid identifier?

A. Abc

- B. !\$Abc
- C. Abc^123
- D. Abc 123

Vishvadeet Lothi

Which of the following is valid identifier?



Which of the following is not unary operator?

A. ++

В. -

C. sizeof

Is need only one operand D.?: -> terneny operator

Which of the following is necessary while evaluating the expressions?

- A. Only associativity is to be taken care. There is no need of precedence.
- B. Only precedence is to be taken care. There is no need of associativity.
- Both associativity and precedence have to be taken care of.
 - D. Precedence is necessary but associativity is automatically taken care by the machine.
 - E. Associativity is necessary but precedence is automatically taken care by the machine.

Predict the output of the following program: #include <stdio.h> int main() printf("%lu %lu %lu %lu", sizeof(char), sizeof(int), sizeof(float), sizeof(double)); getch(); return 0; a) 1448 (b) 1248 c) 1 2 4 16 d) 1 4 8 16 e) Machine dependent

Predict the output of the following program:

```
#include <stdio.h>
void main(){
    short z='a';
    z+=2;
    z++;
    printf("%c,%d", z,z);
     getch();
a) d,100
b) a,97
c) c,99
d) Compilation Error
e) Runtime Error
```

Predict the output for the following program:

```
#include <stdio.h>
int main(){
  int s = 0;
  int t = (\sim s == 1);
  s=~s;
  printf("%d,%d",s, t);
  return 0;
a) 1,0
b) 0,0
c) -1,0
d) 255,0
e) Compiler Dependent
```

Predict the following program's output: void main(){ int x=10,y=20,z=30; x=x+y-z;z=z<<1; x=(x==0)?(x=y<<1&0):z;y=10--; printf("%d,%d,%d",x,y,z); a) 0,10,60 b) 1,10,60 c) 1,9,60 d) 0,9,60

e) Compilation Error

Predict the output of the following program: int main() {
 int x=2,y=3,z;

z=(x&y)?10:20; z=z&(z-1); printf("%d",z); return 0;

a) 10

b) 20

c) 8

d) 2

e) 3

```
Find the output of the following program.
#include<stdio.h>
int main()
    printf("%d",printf("GATE EXAM"));
    getch();
    return 0;
a) Compilation Error
b) 9GATE EXAM
c) GATE EXAM1
d) 1GATE EXAM
e) GATE EXAM9
```

Find the output of the following program. #include<stdio.h> int main() printf("%d",printf("%d",printf("GATE EXAM"))); getch(); return 0; a) Compilation Error b) GATE EXAM91 c) GATE EXAM910 d) 19GATE EXAM e) 109GATE EXAM

Predict the output of the following program:

```
int main()
  int x,y,z;
  x=y=z=10<<1;
  y=y>>1^3;
  z=10-3*2*2+20<<1 && 8-6/3*2;
  printf("%d,%d,%d",x, y, !z);
a) 20,9,1
b) 20,1000,0
c) 20,9,0
d) 20,1000,1
e) Compiler error
```

Happy Learning.!

pointers arran 2-Darrey Union



functors
parameter passing
macros
constants
boal & Jlobal