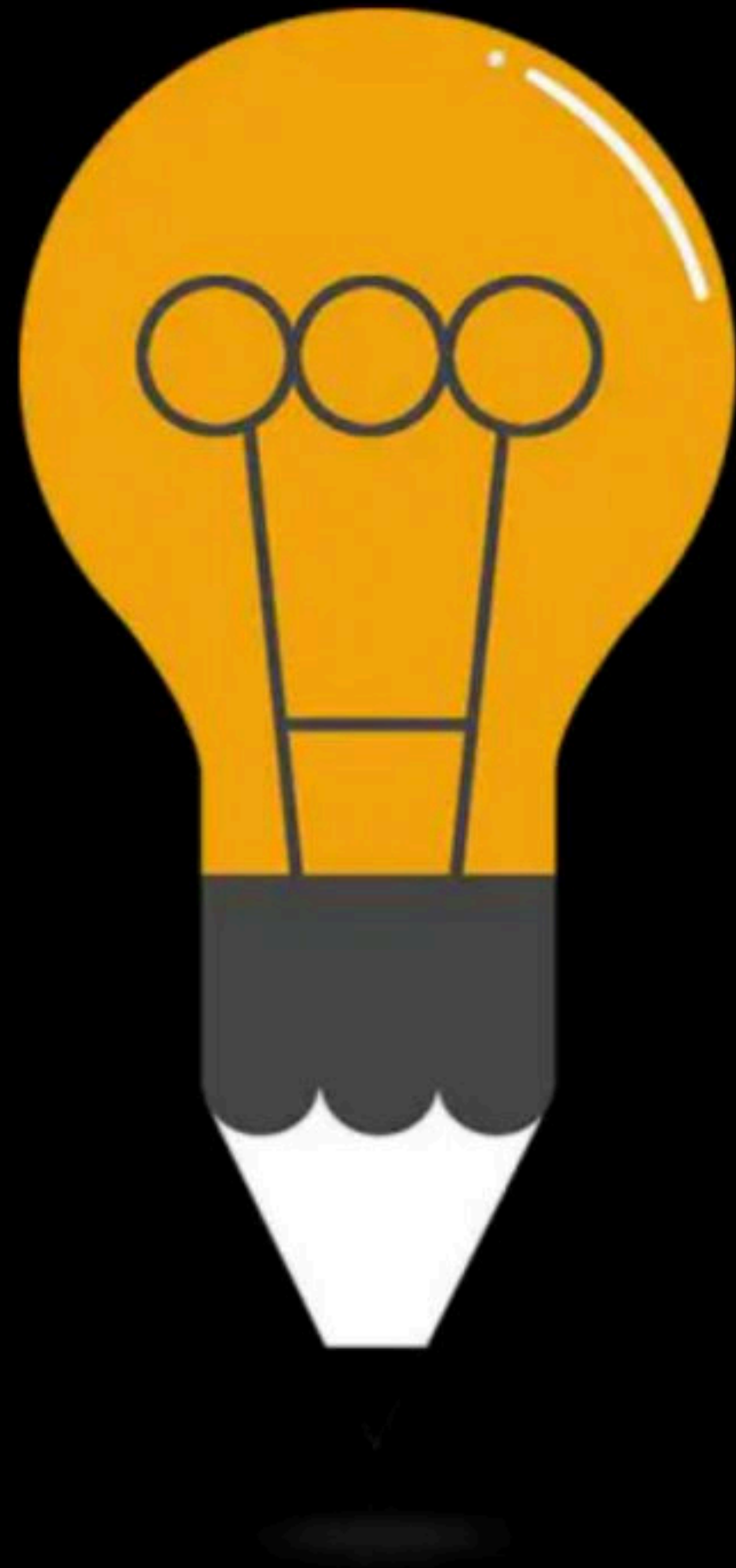


Practice Questions on C-Programming Basics

Special class



Basics of C-Language Practice Questions

By: Vishvadeep Gothi

Question

The tool used by a programmer to convert a high-level source program to an object module is a

- ☒ A. Compiler
- B. Language translator
- C. Linker
- D. Preprocessor

Question

Which of the following C types could  be more suitable to store pi(3.14159)?

☒ A. Short int

☒ B. double

☒ C. long int

☒ D. double imaginary

Question

Which of the following output formatting statements would print the following results?

23 z 4.100000

☒ A. `printf("%d%c%f", 23, z, 4.1);`

☒ B. `printf("%i%c%f", 23, z, 4.1);`

☒ C. `printf("%d %c %f", 23, z, 4.1);`

☒ D. `printf("%i%z%f", 23, z, 4.1);`

☒ E. None

float \Rightarrow after point
6 digit precision

'z' should be
in single quote

Question

Given the following code, what is the value of x after the print statement?

```
int x;  
x = 4;  
printf("%d", --x);
```

x = 3

- A. 2
- ☒ B. 3
- C. 4
- D. 5

Question

Which of the following is not a valid assignment expression?

a) $a = b$ ✓

b) $a *= b$ → $a = a * b$

✓ ~~c) $a + b = c$~~

d) $a = b = 0$

$a = b = 0$

$b = 0$

$a = 0$

L.H.S. = R.H.S

exp. not allowed

Question

Which of the following expressions uses associativity?

A. $a * b + c$

✓ B. $a * b / c$

C. $a + b \% c$

D. $a - b * c$

operators $\begin{cases} \rightarrow \text{precedence} \\ \rightarrow \text{associativity} \end{cases}$

precedence \Rightarrow $*$ $/$ $\%$

\Rightarrow $+$ $-$

Question

Which of the following is not a logical operator?

- ✓ A. if
- B. not
- C. and
- D. or

Question

Which of the following is the complement of equal ($=$)?

A. $>$

B. $>=$

C. $<=$

 D. \neq

Question

Which of the following is not a relational operator?

✓ A. = \longrightarrow assignment

B. <

C. >=

D. >

E. None

Question

The _____ operator is used to extract the address for a variable.

- ✓ A. address (&)
- B. assignment (=)
- C. indirection (*)
- D. selection (>)

&

```
if ( — )  
{  
  1 statement  
}
```

```
if ( — )  
  1 statement
```


Question

What is the output of the following programs-

```
#include<stdio.h>
void main(){
    int i=0;
    if(i==2) printf("This is else");
    else printf("This is if");
    printf("%d",i);
}
```

$i = 0$

This is if 0

- (a) This is if2
- ✓ (b) This is if0
- (c) This is else2
- (d) This is else 0
- (e) Compilation error

Question

What is the output of the following programs-

```
#include<stdio.h>
void main(){
int i=20,j=20;
if(i==2?(i=21):(j=21))
    printf("GATE 2023");
else
    printf("Happy Learning");
printf("%d%d",i,j);
}
```

- (a) GATE 2023 2021
- (b) Happy Learning 2021
- (c) GATE 2023 2020
- (d) Happy Learning 2020
- (e) Error

$i = 20$
 $j = 20$

$i = 2$? $i = 21$: $j = 21$
↓

GATE 20232021

Question

What is the output of the following programs-

```
void main(){  
int choice=2;  
switch(choice){  
case 1: printf("1");  
case 2: printf("2");  
case 3: printf("3");  
break;  
default: printf("Default");  
}  
}
```

choice = 2

23

- (a) Compiler error
- (b) Runtime error
- ☒ (c) 23
- (d) 2
- (e) Default

Question

What is the output of the following programs-

```
void main(){  
    int j=4;  
    switch(j)  
    {  
    default: printf("Default"); break;  
    case 1: printf("V1");  
    case 2: printf("V2");  
    case 3: printf("V3");  
    }  
}
```

j = 4

Default

- (a) Runtime error
- (b) Compilation error
- (c) V1V2V3
- ✓ (d) Default

Question

What is the output of the following programs-

```
#include <stdio.h>
```

```
void main(){
```

```
char ch='v';
```

```
switch(ch+1){
```

```
case 'v': printf("I am Vishvadeep");
```

```
case 'w': printf("I am Wonderful");
```

```
default: printf("Yaha Kyu?");
```

```
}
```

```
}
```

(a) I am Vishvadeep

(b) I am Wonderful

(c) Yaha Kyu?

(d) Compilation error

(e) Runtime error

char ch = 'v'

'w'

I am wonderful yaha kyu?

✓ (f) none

Question

What is the output of the following programs-

```
int main(){  
    printf("Let's Party\n");  
    exit(0);  
    printf("Let's Study");  
Return 0;  
}
```

- ✓* (a) Let's Party
- (b) Let's Party
Let's Study
- (c) Let's ~~Party~~ *Study*
- (d) Compilation error

Happy Learning.!

`exit(0)` \Rightarrow successful
comp.

`exit(1)` \Rightarrow unsuccessful
comp.

