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Previous Year UGC-NET
Questions

ABOUT ME: NAVNEET GUPTA

- 8 years teaching experience.
- AIR 92 in GATE 2008
- Qualified UGC-NET 2012, Raj.-SET 2012, CSIR-Recruitment-Exam in 2011
- Achieved 3rd Rank in NPTEL-DBMS Course
- Achieved Silver Medal in CSIR on ERP Project in 2013
- Area of Expertise : DBMS, Programming, Algorithms,
 Discrete Math, Computer Networks, Operating system

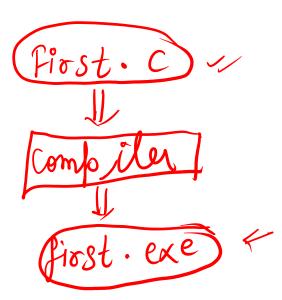




Command Line Arguments

It is possible to pass some values from the command line to your C programs when they are executed. These values are called command line arguments.

The command line arguments are handled using main() function arguments where argc refers to the number of arguments passed, and argv[] is a pointer array which points to each argument passed to the program.



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* Organ Array of pointers of (argc = = 2) (F) pf ('2 arguments fassed"); c:11> first Aish Raitelse of (argc = 2) (F) arjc=3 pf ("only 1 argument is passed"); *argr [0] -> first else

The f ("More than 2 arguments passed");

off more than 2 arguments passed"); *argv[1] > Arsh *argv[2] > Rai





(UGCNET-dec2009-ii-12) What would be the output of the following

```
program, if run from the command line as
                  "myprog 1 2 3"?
main (int argc, char * argv[])
                                          100
i \neq argv[1] + argv[2] + argv[3];
Frintf ("% d", i);
 (A) 123
 (B) 6
 C) Error
```



(UGC net August 2016 PP2 No 12) The following 'C' statement:

int * f[]();

-R declares:

(A) A function returning a pointer to an array of integers. >

Array of functions returning pointers to integers.

(C) A function returning an array of pointers to integers.

(D) An illegal statement. X



(UGCNET-June2015-II-11) What is the output of the following program?

(Assume that the appropriate pre-processor directives are included and there is no syntax error)

main() $S \rightarrow B C D E F G H V$

```
main()
char S[] = "ABCDEFGH";
printf ("%C",* (& S[3]));
printf ("%s", S+4);
printf ("%u",(S);)
/* Base address of S is 1000 */}
ABCDEFGH1000
   DDEFGHH1000
```



(UGC net dec 14 PP2 No 12) What does the following expression means?



(A) a pointer to a function returning array of n pointers to function returning character pointers.

(B) a function return array of N pointers to functions returning pointers to characters

(C) an array of n pointers to function returning pointers to characters

(D) an array of n pointers to function returning pointers to functions returning pointers to characters.





```
(UGCNET-Sep2013-II-33) What is the size of the
following Union?
```

Assume that the size of int = 2, size of float = 4, size

```
of char = 1
        union tag {
        int a;
        float b;
        char c;
        };
```

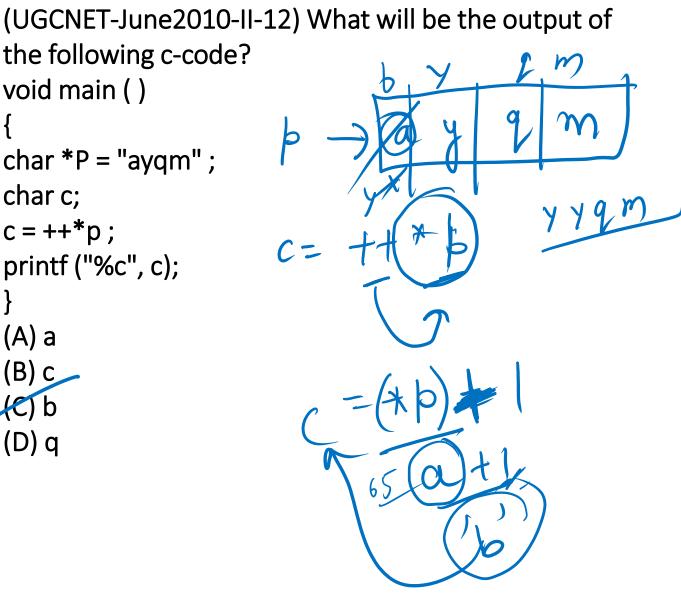
```
(D) 7
```



```
(UGCNET-Sep2013-II-34) What is the output of the
following program segment?
sum(n)
if ( n < 1 ) return (n;
else return (n + sum(n-1));
main()
printf("%d", sum(5));
(A) 10
                                                 0
(D) 14
```



```
the following c-code?
void main()
char *P = "ayqm";
char c;
c = ++*p;
printf ("%c", c);
(A) a
(B) c
(D) q
```







(UGC NET 2008 PP No 12) Consider the following declaration in C:

char a[];
char *p;



Which of the following statement is not a valid

statement?

- (A) p=a; (B) p=a+2;
- (C) a=p;
- (D) p=&a[2]



The following statement in 'C'

int(*f())[]

Declares

(A) a function returning a pointer to an array of integers.

(a function returning an array of pointers to integers.

(x) array of functions returning pointers to integers.

(D) an illegal statement.

int



```
Trace the error:
void main()
printf("%d, %d", a, *b)
(A) No error
(B) Logical error
   Syntax error
```

(D) Semantic error



11. Consider the following two C++ programs P1 and P2 and two statements S1 and S2 about these programs:

- 🔏. Only S1 is true.
- B. Only S2 is true.
- C. Both S1 and S2 are true.
- D. Neither S1 nor S2 is true.

P1	P2
void f (int a, int *b, int &c)	double $a = 1, b = 2;$
$\{a=1;$	double &f(double &d)
*b = 2;	$\{ d = 4;$
c = 3;	return b;
}	}
int main()	int main()
$\{ int i = 0; $	{
f(i, &i, i);	f(a) = 5;
cout << i;	cout << a << ":" << b;
}	}

S1: P1 prints out 3

S2: P2 prints out 4: 2

What can you say about the statements S1 and S2?



V4c-2016

12. Consider the following recursive Java function f that takes two long arguments

and returns a float value:

```
public static float f(long m, long n)
{
float result = (float) m/ (float) n;
if (m < 0 || n < 0)  
return o.of;
else
result += f(m*2, n*3);
result result;
}
```

m = 16 m = 0 m = 10 m = 20 m = 4 m = 2 m = 4 m = 2 m = 2 m = 3 m = 2 m = 3 m = 2 m = 3 m = 2 m = 3m = 2 m = 3

Which of the following integers best approximates the value of f(2, 3)?



- L3 Which of the following is correct?
 - A. Base class pointer object cannot point to a derived class object



- B. Derived class pointer object cannot point to a base class object \mathcal{T}
- C. A derived class cannot have pointer objects (F)
- D. A base class cannot have pointer objects \mathcal{P}



- 14. Out of the following, which is not a member of the class?
 - A. Static function
 - B. Friend function
 - C. Constant function
 - D. Virtual function



- 15. What is the other name used for functions inside a class?
 - A. Member variables
 - B. Member functions
 - C. Class functions
 - D. Class variables



16 What is printed by the print statements in the program P1 assuming call

by reference parameter passing?

```
200
                                       100
Program P1()
   x = 10;
   y = 3;
  func1(y,x,x); \leftarrow
   print x;
   print y; /
func1(x,y,z)
                                                                    20
```



- 17. Which of the following cannot be used with the virtual keyword?
 - A. Class
 - B. Member functions
 - C. Constructors
 - D. Destructors





- 18. Syntax of entity declaration is _____
 - <!entity name "value">
 - B. <entity name "value"!> ×
 - C. Zvalue" entity name>
 - D. *<!"value" entity name> *





- 19. Which of the following is not a type of Constructor?
 - A Friend constructor
 - B. Copy constructor
 - C. Default constructor
 - D. Parameterized constructor



- 20. How run-time polymorphisms are implemented in C++?
 - A. Using Inheritance
 - B. Using Virtual functions
 - C. Using Templates

D. Using Inheritance and Virtual functions



- 21. Which of the following is an abstract data type?
 - A. int 🗸
 - B. float
 - e. class
 - D. string







```
22. Consider the C Code:-
#include<stdio.h>
void mystery(int *ptra, int *ptrb)
int *temp;
temp = ptrb;
ptrb = ptra;
ptra = temp;
int main()
       int a=2016, b=0, c=4, d=42;
       mystery(&a, &b);
       if (a < c)
      Xmystery(&c, &a);
       mystery(&a, &d);
    printf("%d\n", a);
The output of the program
```



Subject Completed

