

# Programming and Data structures

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9. Consider the following C function definition

```
int Trial (int a, int b, int c)
{
    if ((a>=b) && (c<b)) return b;
    else if (a>=b) return Trial(a, c, b);
    else return Trial(b, a, c);
}
```

The functional Trial:

- (A) finds the maximum of a, b and c
- (B) finds the minimum of a, b and c
- (C) finds the middle number of a, b and c
- (D) None of the above

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10. SAME AS QUESTION 1.1 IN CAO

The most appropriate matching for the following pairs is:-

X: Indirect addressing	1: Loops
Y: Immediate addressing	2: Pointers
Z: Auto decrement addressing	3: Constants

a)X-3,Y-2,Z-1

- b)X-1,Y-3,Z-2
- c)X-2,Y-3,Z-1
- d)X-3,Y-1,Z-2

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15. The value of j at the end of the execution of the following C program:

```
int incr (int i)
{
    static int count = 0;
```

```

        count = count + i;
        return (count);
    }
    main ()
    {
        int i, j;
        for (i = 0; i <= 4; i++)
            j = incr (i);
    }
    is:

```

(A)10

(B)4

(C)6

(D)7

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16. What is printed by the print statements in the program P1 assuming call by reference parameter passing?

```

Program P1()
{
    x = 10;
    y = 3;
    func1(y,x,x);
    print x;
    print y;
}
func1(x,y,z)
{
    y = y+4;
    z = x+y+z;
}

```

(A) 10, 3

(B) 31, 3

(C) 27, 7

(D) None of the above

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18. Consider the following program

```
Program P2
  var n : int;

  procedure W(var x : int)
  begin
    x = x + 1;
    print x;
  end

  procedure D
  begin
    var n : int;
    n = 3;
    W(n);
  end

begin  \\begin P2
  n=10;
  D;
end
```

If the language has dynamic scoping and parameters are passed by reference, what will be printed by the program?

1. 10
2. 11
3. 3
4. None of the above

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24. Consider the C program shown below:

```
#include<stdio.h>
#define print(x) printf("%d", x)

int x;
void Q(int z)
{
    z+=x;
    print(z);
}
```

```
void P(int *y)
{
    int x = *y + 2;
    Q(x);
    *y = x - 1;
    print(x);
}
main(void) {
    x = 5;
    P(&x);
    print(x);
}
```

The output of this program is

- (A) 12 7 6
- (B) 22 12 11
- (C) 14 6 6
- (D) 7 6 6

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Consider the following C program segment:

```
char p[20];  
char *s = "string";  
int length = strlen(s);  
int i;  
for (i = 0; i < length; i++)  
    p[i] = s[length - i];  
printf("%s",p);
```

The output of the program is

- (A) gnirts
- (B) gnirt
- (C) string
- (D) no output is printed

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38. Consider the following C-program:

```

void foo(int n, int sum)
{
    int k = 0, j = 0;
    if (n == 0) return;
    k = n % 10;
    j = n / 10;
    sum = sum + k;
    foo (j, sum);
    printf ("%d,", k);
}

int main ()
{
    int a = 2048, sum = 0;
    foo (a, sum);
    printf ("%d\n", sum);
}

```

What does the above program print?

- (A) 8, 4, 0, 2, 14
- (B) 8, 4, 0, 2, 0
- (C) 2, 0, 4, 8, 14
- (D) 2, 0, 4, 8, 0

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52. Consider the C program given below :

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

```

int main ()
{
    int sum = 0, maxsum = 0, i, n = 6;
    int a [] = {2, -2, -1, 3, 4, 2};
    for (i = 0; i < n; i++) {
        if (i==0 || a[i] < 0 || a[i] < a [i-1]) {
            if (sum > maxsum) maxsum = sum;
            sum = (a [i] > 0) ? a [i] : 0;
        }
        else sum += a [i];
    }
    if (sum > maxsum) maxsum = sum ;
    printf ("%d\n", maxsum);
}

```

What is the value printed out when this program is executed?

What is the value printed out when this program is executed?

- (A) 9
- (B) 8
- (C) 7
- (D) 6

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57. What is the output printed by the following C code?

```
#include <stdio.h>
int main ()
{
    char a [6] = "world";
    int i, j;
    for (i = 0, j = 5; i < j; a [i++] = a [j--]);
    printf ("%s\n", a);
}
```

- (A) dlrow
- (B) Null String
- (C) dlrlld
- (D) worow

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103. Consider the following two functions

```
void fun1(int n) {  
    if(n == 0) return;  
    printf("%d", n);  
    fun2(n - 2);  
    printf("%d", n);  
}  
void fun2(int n) {  
    if(n == 0) return;  
    printf("%d", n);  
    fun1(++n);  
    printf("%d", n);  
}
```

The output printed when fun1 (5) is called is

- (A) 53423122233445
- (B) 53423120112233
- (C) 53423122132435
- (D) 53423120213243

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104. Match the following:

list 1

- (P) static char var;  
addresses
- (Q) m = malloc (10); m = NULL;
- (R) char \*ptr[10];  
data
- (S) register int var1;

list 2

- (i) Sequence of memory locations to store
- (ii) A variable located in data section of memory
- (iii) Request to allocate a cpu register to store
- (iv) a lost memory which cannot be freed

P-ii; Q-iv; R-i; S-iii

P-ii; Q-i; R-iv; S-iii

P-ii; Q-iv; R-iii; S-i

P-iii; Q-iv; R-i; S-ii

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105. Consider the following function implemented in C:

```
void printxy(int x, int y) {  
    int *ptr;  
    x=0;  
    ptr=&x;  
    y=*ptr;  
    *ptr=1;  
    printf("%d, %d", x, y);  
}
```

The output of the printxy(1,1) is

- (A) 0,0
- (B) 0,1
- (C) 1,0
- (D) 1,1

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106. Consider the following program

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

int main()
{
    char * c = "GATECSIT2017";
    char *p = c;
    printf("%d", (int)strlen(c+2[p] - 6[p] - 1));
    return 0;
}
```

The Output of the following program is\_\_\_\_

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107. Consider the following C program:

```
#include
int main()
{
    int m = 10;
    int n, n1;
    n = ++m;
    n1 = m++;
    n--;
    --n1;
```

```

    n -= n1;
    printf("%d",n);
    return 0;
}

```

The output of the program is \_\_\_\_\_.

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109. Consider the following C code:

```

#include<stdio.h>
int *assignval (int *x, int val) {
    *x = val;
    return x;
}

void main () {
    int *x = malloc(sizeof(int));
    if (NULL == x) return;
    x = assignval (x,0);
    if (x) {
        x = (int *)malloc(sizeof(int));
        if (NULL == x) return;
        x = assignval (x,10);
    }
    printf("%d\n", *x);
    free(x);
}

```

The code suffers from which one of the following problems:

(A) compiler error as the return of malloc is not typecast appropriately.

(B) compiler error because the comparison should be made as x==NULL and not as shown.

(C) compiles successfully but execution may result in dangling pointer.

(D) compiles successfully but execution may result in memory leak.

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110. Consider the C program fragment below which is meant to divide x by y using repeated subtractions. The variable x, y, q and r are all unsigned int.

```
while (r >= y) {  
    r=r-y;  
    q=q+1;  
}
```

Which of the following conditions on the variables x, y, q and r before the execution of the fragment will ensure that the loop terminates in a state satisfying the condition  $x == (y*q + r)$ ?

- (A)  $(q == r) \ \&\& \ (r == 0)$
- (B)  $(x > 0) \ \&\& \ (r == x) \ \&\& \ (y > 0)$
- (C)  $(q == 0) \ \&\& \ (r == x) \ \&\& \ (y > 0)$
- (D)  $(q == 0) \ \&\& \ (y > 0)$

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111. Consider the following C program.

```
#include<stdio.h>  
struct Ournode{  
    char x, y, z;  
};  
int main() {  
    struct Ournode p={'1', '0', 'a'+2};  
    struct Ournode *q=&p;  
    printf("%c, %c", *((char*)q+1), *((char*)q+2));  
    return 0;  
}
```

The output of this program is:

- (A) 0, c
- (B) 0, a+2
- (C) '0', 'a+2'
- (D) '0', 'c'

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112. Consider the following C program:

```
#include<stdio.h>

int counter=0;

int calc (int a, int b) {
    int c;
    counter++;
    if (b==3) return (a*a*a);
    else {
        c = calc(a, b/3);
        return (c*c*c);
    }
}

int main() {
    calc(4, 81);
    printf("%d", counter);
}
```

The output of this program is \_\_\_\_\_ .

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113. Consider the following program written in pseudo-code. Assume that

x and y are integers.

```
Count (x, y) {  
    if (y != 1) {  
        if (x != 1) {  
            print ("*");  
            Count (x/2, y);  
        }  
        else {  
            y=y-1;  
            Count (1024, y);  
        }  
    }  
}
```

The number of times that the print statement is executed by the call  
Count(1024, 1024) is \_\_\_\_\_ .

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114. Consider the following C program:

```
#include <stdio.h>  
void fun1(char *s1, char *s2) {  
    char *temp;  
    temp = s1;  
    s1 = s2;  
    s2 = temp;  
}  
void fun2(char **s1, char **s2) {  
    char *temp;  
    temp = *s1;  
    *s1 = *s2;  
    *s2 = temp;  
}  
int main() {  
    char *str1 = "Hi", *str2 = "Bye";  
    fun1(str1, str2);  
    printf("%s %s", str1, str2);  
    fun2(&str1, &str2);  
    printf("%s %s", str1, str2);  
    return 0;  
}
```

The output of the program above is

- (A) Hi Bye Bye Hi
- (B) Hi Bye Hi Bye
- (C) Bye Hi Hi Bye
- (D) Bye Hi Bye Hi

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115. Consider the following C code. Assume that unsigned long int type length is 64 bits

```
unsigned long int fun(unsigned long int n)
{
    unsigned long int i, j=0, sum = 0;
    for( i=n; i>1; i=i/2) j++;
    for( ; j>1; j=j/2) sum++;
    return sum;
}
```

The value returned when we call fun with the input  $2^{40}$  is

- (A) 4
- (B) 5
- (C) 6
- (D) 40

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116. Consider the following C program:

```
#include stdio.h
int main(){
    int arr[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 0, 1, 2, 5}, *ip = arr + 4;

    printf("%d\n", ip[1]);

    return 0;
```



}

The number that will be displayed on execution of the program is \_\_\_\_\_ .

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117. Consider the following C program :

- `#include<stdio.h>`
- `int jumble(int x, int y){`
- `x = 2*x+y;`
- `return x;`
- `}`
- `int main(){`
- `int x=2, y=5;`
- `y=jumble(y,x);`
- `x=jumble(y,x);`
- `printf("%d \n",x);`
- `return 0;`
- `}`

The value printed by the program is \_\_\_\_\_.

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118. Consider the following C function.

- `void convert (int n )`
- `{`
- `if (n<0)`
- `printf{"%d", n);`
- `else`
- `{`
- `convert(n/2);`
- `printf("%d", n%2);`
- `}`
- `}`

Which one of the following will happen when the function convert is called with any positive integer n as argument?

(A) It will print the binary representation of n in the reverse order and terminate.

(B) It will print the binary representation of n but will not terminate

(C) It will not print anything and will not terminate.

(D) It will print the binary representation of n and terminate.

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119. Consider the following C program:

```
• #include <stdio.h>
• int main() {
•     float sum = 0.0, j=1.0, i=2.0;
•     while (i/j > 0.0625) {
•         j=j+j;
•         sum=sum+i/j;
•         printf("%f\n", sum);
•     }
•     return 0;
• }
```

The number of times the variable sum will be printed, when the above program is executed, is \_\_\_\_\_

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120. Consider the following C program:

```
• #include <stdio.h>
• int r()
• {
•     static int num=7;
•     return num--;
• }
• int main()
• {
•     for (r();r();r())
•         printf("%d", r());
•     return 0;
• }
```

Which one of the following values will be displayed on execution of the programs?

1. 41
2. 52
3. 63
4. 630

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121. Consider the following C program:

- `#include <stdio.h>`
- `int main()`
- `{`
- `int a[] = {2, 4, 6, 8, 10};`
- `int i, sum=0, *b=a+4;`
- `for (i=0; i<5; i++)`
- `sum=sum+(*b-i) - *(b-i);`
- `printf("%d\n", sum);`
- `return 0;`
- `}`

The output of the above C program is \_\_\_\_\_

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122. Consider the following C functions.

```
int tob (int b, int* arr)
{
    int i;
    for (i = 0; b>0; i++)
    {
        if (b%2) arr [i] = 1;
        else      arr[i] = 0;
        b = b/2;
    }
    return (i);
}
```

```
int pp(int a, int b)
{
    int arr[20];
    int i, tot = 1, ex, len;
    ex = a;
    len = tob(b, arr);
```

```

        for (i=0; i<len ; i++)
        {
            if (arr[i] ==1)
                tot = tot * ex;
            ex= ex*ex;
        }
        return (tot) ;
    }

```

The value returned by pp(3,4) is \_\_\_\_\_ .

**Note –** This question was Numerical Type.

(A) 81

(B) 64

(C) 100

(D) 49

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123.

Consider the following C functions.

```

int fun1(int n)
{
    static int i= 0;
    if (n > 0)
    {
        ++i;
        fun1(n-1);
    }
    return (i);
}

```

```

int fun2(int n)
{
    static int i= 0;
    if (n>0)

```

```
{
    i = i+ fun1 (n) ;
    fun2 (n-1) ;
}
return (i);
}
```

The return value of fun2(5) is \_\_\_\_\_ .

**Note** – This question was Numerical Type.

(A) 55

(B) 45

(C) 50

(D) 52

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