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Question # 23 Revisit

Identify the output of the following code snippet in C.

```
1 #include<stdio.h>
2 int main(){
3     int i=3;
4     switch(i){
5         default:printf("zero");
6         case 1: printf("one");
7             break;
8         case 2: printf("two");
9             break;
10        case 3: printf("three");
11            break;
12    }
13    return 0;
14 }
```

Choose the best option

- ☐ Compile time error
- ☐ Runtime error
- ☒ Three
- ☐ Zero

Clear Response

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Question # 3 Revisit

You have implemented a stack using two queues. The stack should support push operation in  $O(1)$  time. How many enqueue/dequeue operations on the queues are required to support the following sequence of stack operations?

```
push(5);
push(6);
pop();
push(3);
push(4);
pop()
```

Choose the best option

- ☒ 7 enqueue 5 dequeue
- ☐ 8 enqueue 6 dequeue
- ☐ 7 enqueue 6 dequeue
- ☐ 8 enqueue 5 dequeue

Clear Response

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**Question # 5** Revisit

You have implemented a queue using two stacks. The queue should support dequeue operation in  $O(1)$ . How many push/pop operations on the stacks are required to support the following sequence of queue operations?

```
enqueue(5);
enqueue(6);
dequeue();
enqueue(3);
enqueue(4);
dequeue();
```

**Choose the best option**

- ☐ 12 push 10 pop
- ☐ 8 push 10 pop
- ☐ 17 push 10 pop
- ☐ 6 push 4 pop

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**Question # 17** Revisit

Assuming x, y and z are floating point variables and they have been assigned the values x = 8.8, y = 3.5 and z = -5.2. What will be the value of the arithmetic expression  $2*x/(3*y)$  in C++?

**Choose the best option**

- ☐ 2
- ☐ 1.6
- ☐ 1.67619
- ☐ 0.67619

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Ans (C)

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Question # 18 Revisit

In C, identify the output of the following code snippet.

```
1 #include<stdio.h>
2 void main(){
3     int i;
4     char a[5] = {97,99,101,103,105};
5     for(i = 0; i < 5;i=i+2)
6         printf("%c" ,a[++i]);
7     printf(" , %d",i);
8 }
```

Choose the best option

- ☐ cl, 6
- ☐ ag, 6
- ☐ ag, 5
- ☐ Infinite loop

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Ans (A)

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Question # 19 Revisit

Identify the output of the following code snippet in C.

```
1 #include<stdio.h>
2 void main()
3 {
4     int s[][2]={ {2,6}, {4,8} };
5     printf("%d",s);
6 }
```

Choose the best option

- ☐ Displays: 2
- ☒ Displays address of array s
- ☐ Garbage value
- ☐ Compiler error

Clear Response

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Question # 28 Revisit

What will be the output of the following C program?

```
1 #include <stdio.h>
2 void main()
3 {
4     char name[]="AEIOU";
5     int i=0;
6     while(name[i]!='\0'){
7         printf("%c",name[i]);
8         i++;
9     }
10    return 0;
11 }
```

Choose the best option

- ☐ AEIOU0
- ☐ AEIOu
- ☐ AEIOU
- ☐ AEIOU\n

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Ans (C)

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Question # 9 Revisit

What would be the array immediately after the 7th call to merge() when top-down merge sort is used to sort the following array?

15 98 66 24 76 33 19 82 10 50 75 48

Choose the best option

- ☐ 15 24 33 66 76 98 10 19 82 50 75 48
- ☐ 15 24 33 66 76 98 19 82 10 50 75 48
- ☐ 15 66 98 24 33 76 19 82 10 50 75 48
- ☐ 15 66 98 24 76 33 19 82 10 50 75 48

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Ans (B)

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Question # 25 Revisit

What will be the output of the following program?

```
1 #include <stdio.h>
2 void show(){
3     printf("\n My name is Andy too");
4     main();
5 }
6 int main(){
7     printf("My name is Mike");
8     show();
9 }
```

Choose the best option

- ☐ My name is Mike  
My name is Andy too
- ☒ "My name is Mike" and "My name is Andy too" will get printed infinitely
- ☐ Nothing will print
- ☐ Both messages will get printed 2 times

Clear Response

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Question # 20 Revisit

Identify the error in the following C code.

```
1 #include<stdio.h>
2 void main(){
3     char arr[10]="rectangle"; //Line3
4     int i;
5     for(i=0;i<=7;i++)
6         printf("%d",arr[i]);
7     arr++; //line7
8 }
```

Choose the best option

- ☐ No Error
- ☐ We cannot declare an array of character type (Line3)
- ☒ arr cannot be incremented (Line7)
- ☐ Improper array declaration (Line3)

Clear Response

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Question # 26 Revisit

What will be the output of the following program?

```
1 #include<stdio.h>
2 void main()
3 {
4     int i=-1,j=-1,k=-1 ,l=2,m;
5     m=i++ || l++;
6     printf("%d",m);
7 }
```

Choose the best option

☐ 0

☒ 1

☐ 2

☐ -1

Clear Response

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Question # 27 Revisit

What will be the output of the following program?

```
1 #include <stdio.h>
2 int main(){
3     printf(3+"Andy");
4     return 0;
5 }
```

Choose the best option

☐ Andy

☐ n

☐ y

☐ Compiler error

☐ Runtime error

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Ans (c)

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Question # 21 Revisit

Which of the given outputs will be displayed when the following code is executed?

```
1 #include <stdio.h>
2 int main(){
3     int i;
4     char x[]="\0";
5     if(printf("%s\n",x))
6         printf("Ok here \n");
7     else
8         printf("Forget it\n");
9 }
```

Choose the best option

- ☐ Forget it
- ☐ Ok here
- ☐ Error
- ☐ None of the given options

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Ans (B)

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Question # 24 Revisit

What will be the output of the following program in C?

```
2
3 void show();
4 int main(){
5     show();
6     show();
7 }
8 void show(){
9     auto int i=0;
10    register int j=0;
11    static int k;
12    i++;
13    j++;
14    k++;
15    printf("\n%d %d %d",i,j,k);
16 }
```

Choose the best option

- ☒ 1 1 1
- ☐ 1 1 2
- ☐ 1 1 1
- ☐ 1 1 1
- ☐ 1 1 2
- ☐ 1 1 2
- ☐ 1 2 2
- ☐ 1 2 2

Clear Response

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**Question # 14** Revisit

Considering the following enum in C++, what will be the value of Sunday?  
enum days {Sunday,Monday=5,Tuesday=6,Wednesday=7}

**Choose the best option**

- ☐ 4
- ☒ 0
- ☐ Generate an error
- ☐ No value until you assign it

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Ans (B)

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**Question # 13** Revisit

Which of the given statements about the following code snippet is true in C++ ?

```
1 switch(v)
2 {
3     case a:
4         break;
5     ...
6     if(condition)
7     {
8         case f:
9         ...
10        break;
11    }
12    ...
13    case z:
14    ...
15    break;
16    default:
17 }
```

**Choose the best option**

- ☒ If condition will never get executed and hence, case f and case g will never be reached.
- ☐ Case f will be reached only when v is f and condition is true.
- ☐ Case f will be reached only when v is f.
- ☐ None of the given options

Clear Response

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**Question # 10** Revisit

In C++, what will be the value of "i" after the following code is run?

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int i = 0;
5     char a[2] = { char() };
6     a[i++] = ++i;
7     cout<<i;
8     return 0;
9 }
```

Choose the best option

- ☐ 2
- ☐ 1
- ☐ 3
- ☐ Undefined

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Ans ( A )

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**Question # 15** Revisit

A C++ program contains the following declaration, what would be the value of the expression `abs (i - 2*j)`?

```
1 int i = 8, j = 5;
2 abs (i - 2*j);
```

Choose the best option

- ☐ 2
- ☐ 6
- ☐ -2
- ☐ Compilation error

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Ans (A)

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Question # 22 Revisit

Which of the given values will be displayed when the following code is executed?

```
1 #include <stdio.h>
2 void main(){
3     char b[]="12345\0";
4     int x=strlen(b);
5     printf("here in 3 %d\n",++x);
6 }
```

Choose the best option

- ☐ here in 3 3
- ☒ here in 3 6
- ☐ here in 3 9
- ☐ here in 3 5

Clear Response

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Question # 11 Revisit

Identify the output of the following code in C++.

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int a=10,b=20,c;
5     c=a>2+b!=6;
6     cout<<c;
7     return 0;
8 }
```

Choose the best option

- ☐ 20
- ☐ 1
- ☐ 10
- ☐ None of the given options

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Ans (B)

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Question # 16 Revisit

In C++, which of the following statements about the following line of code is true?

```
1 i = (j = 4) + (k = 9);
```

Choose the best option

- ☐ It assigns a value 13 to i.
- ☐ It assigns a value 4 to i.
- ☐ It gives an error message.
- ☐ It assigns a value 7 to i.

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Ans (A)

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Question # 12 Revisit

Identify the output of the following code snippet containing the switch control statement in C++.

```
1 switch(10) {  
2 case 10:  
3 cout << "1" << endl;  
4 break;  
5 case 10:  
6 cout << "2" << endl;  
7 }
```

Choose the best option

- ☒ 1
- ☐ 1
- ☐ 2
- ☐ Error: Duplicate case value

Clear Response

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Ans (D)

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Question # 8 Revisit

What would be the level-order traversal of the BST formed by inserting the following keys in sequence?

41 53 18 72 63 38 71 79 47 54

Choose the best option

- ☐ 41 18 53 38 47 72 63 79 54 71
- ☐ 41 18 53 38 47 63 54 72 71 79
- ☐ 18 38 41 47 53 54 63 71 72 79
- ☐ 79 72 71 63 54 53 47 41 38 18

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Question # 7 Revisit

Consider an array  $L[5 \dots 30]$ , where each element  $L[i]$ ,  $5 \leq i \leq 30$  is of 4 bytes and the address of  $L[5]$  is 1000. What is the address of  $L[12]$ ?

Choose the best option

- ☐ 1024
- ☐ 1028
- ☐ 1032
- ☐ 1036

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Ans (B)

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Question # 6 Revisit

Considering the following function, if you perform a breadth first scan of its recursion tree for call f(5), what would be the maximum size of the queue, at any given time?

```
1 int f (int n) {  
2     return (n < 3) ? n-1 : f(n-1) + f(n-2);  
3 }
```

Choose the best option

- ☐ 4
- ☐ 5
- ☐ 3
- ☐ 6

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Question # 4 Revisit

Considering the following function, what would be the maximum depth of the call stack, at any given time, created by the call: f(5)?

```
1 int f (int n) {  
2     return (n < 3) ? n-1 : f(n-1) + f(n-2);  
3 }
```

Choose the best option

- ☐ 4
- ☐ 3
- ☐ 5
- ☐ 1

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**Question # 1** Revisit

Assuming number of nodes > 2 in a linked list, which of the following codes will delete two nodes from the linked list?

**Choose the best option**

- ☐ 1 Next[x]=Next[Next[x]];
- ☐ 1 Next[Next[x]]=x;
- ☐ 1 Next[x]=Next[Next[Next[x]]];
- ☐ 1 x=Next[Next[x+1]];

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Ans (B)