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Time taken 1 hour 7 mins

Grade 27.00 out of 40.00 (68%)

Question 1

Incorrect

Mark 0.00 out of
1.00

What is the output of the following code?

```
void main()
{

    int a[5] = {4, 0, 15, 20, 25};
    int i, j, m;
    i = ++a[1];
    j = a[1]++;
    m = a[i++];
    printf("%d, %d, %d", i, j, m);

}
```

Select one:

- ☐ a. 1, 2, 1
- ☐ b. 2, 1, 2
- ☒ c. 1, 2, 15 ✖
- ☐ d. 0, 1, 15

Your answer is incorrect.

The correct answer is: 2, 1, 2

Question 2

Correct

Mark 1.00 out of
1.00

Predict the output of the following program.

```
#include<stdio.h>

int main()
{
    char str1[10]="abcz";
    for(int i=0;i<4;i++)
        printf("%c",(str1[i]-32));
    return 0;
}
```

Select one:

- ☐ a. AB
- ☒ b. ABCZ ✓
- ☐ c. abcz
- ☐ d. zcba

Your answer is correct.

The correct answer is: ABCZ

Question 3

Correct

Mark 1.00 out of
1.00

The output of the following program is

```
#include<stdio.h>
int f(int n)
{
    int x=1, k;
    if (n==1)
        return x;
    for (k=1; k<n; ++k)
        x=x+f(k)*f(n-k);
    return x;
}
int main()
{
    printf("%d", f(4));
return 0;
}
```

Select one:

- ☐ a. 51
- ☒ b. 15 ✓
- ☐ c. 4
- ☐ d. 1

Your answer is correct.

The correct answer is: 15

Question 4

Incorrect

Mark 0.00 out of
1.00

The output of the following program is

```
#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(2,9);
    printf ("%d", counter);
    return 0;
}
```

Select one:

- ☐ a. 16
- ☐ b. 2
- ☐ c. 8
- ☒ d. 512 ✖

Your answer is incorrect.

The correct answer is: 2

Question 5

Correct

Mark 1.00 out of
1.00**What is the output of C Program with functions.?**

```
#include<stdio.h>

void show();

int main()
{
    show();
    printf("ARGENTINA ");
    return 0;
}

void show()
{
    printf("AFRICA ");
}
```

Select one:

- ☐ a.
Compiler error
- ☐ b.
ARGENTINA AFRICA
- ☒ c.
AFRICA ARGENTINA

- ☐ d.
ARGENTINA

Your answer is correct.

The correct answer is:
AFRICA ARGENTINA

Question 6

Correct

Mark 1.00 out of
1.00

Guess the output:

```
#include <stdio.h>
int swap(int a, int b)
{
    int temp;
    temp = a;
    a = b;
    b = temp;
}

int main()
{
    int num1 = 10, num2 = 20;

    printf("Before swapping num1 = %d num2 = %d\n", num1, num2);
    swap(num1, num2);
    printf("After swapping num1 = %d num2 = %d \n", num1, num2);
    return 0;
}
```

Select one:

- ☐ a. Before swapping num1 = 10 num2 = 20 After swapping num1 = 10 num2 = 10
- ☐ b. Before swapping num1 = 10 num2 = 20 After swapping num1 = 20 num2 = 10
- ☒ c. Before swapping num1 = 10 num2 = 20 After swapping num1 = 10 num2 = 20
- ☐ d. Before swapping num1 = 10 num2 = 20 After swapping num1 = 20 num2 = 20

Your answer is correct.

The correct answer is: **Before swapping num1 = 10 num2 = 20 After swapping num1 = 10 num2 = 20**

Question 7

Incorrect

Mark 0.00 out of
1.00

What will be the output of the following program?

```
#include<stdio.h>
#include<string.h>
int main()
{
    char str1[]="HELLO ";
    char str2[15];
    strcpy(str2,str1);
    printf("%s%s",str2,str1);
    printf("%d",(str1!=str2));
    printf("%d",strcmp(str1,str2));
    return 0;
}
```

Select one:

- ☐ a. HELLO HELLO 10
- ☒ b. HELLOHELLO10 ❌
- ☐ c. HELLO HELLO 00
- ☐ d. HELLO HELLO 01

Your answer is incorrect.

The correct answer is: HELLO HELLO 10

Question 8

Incorrect

Mark 0.00 out of
1.00

The output of the following program is

```
#include<stdio.h>
int max(int x, int y)
{
    if (x>y)
        return x;
    else
        return y;
}
int f(int a[], int n)
{
    if (n <= 1) return 0;
    else return max(f(a+1, n-1), a[0]-a[1]);
}
int main()
{
    int a[] = {6, 10, 4, 12, 8};
    printf("%d", f(a, 5));
    return 0;
}
```

Select one:

- ☐ a. 6
- ☐ b. 12
- ☒ c. 10 ✖
- ☐ d. 4

Your answer is incorrect.

The correct answer is: 6

Question 9

Correct

Mark 1.00 out of
1.00

What is the output of the following code?

```
void main()
{

    int a[4] = {4,9,20};
    int b[3];
    b=a;
    printf("%d", b[0]);

}
```

Select one:

- ☐ a. 4
- ☐ b. 9
- ☒ c. Compilation Error ✓
- ☐ d. 20

Your answer is correct.

The correct answer is: Compilation Error

Question **10**


Correct

Mark 1.00 out of
1.00

Which function will run without any compile errors?

Select one:

- ☒ a.
int sum(int a, int b)

{return (a + b);}

- ☐ b.
int sum(int a, int b)

return (a + b);
- ☐ c.
none of the mentioned
- ☐ d.
int sum(a, b)

return (a + b);

Your answer is correct.

The correct answer is:

int sum(int a, int b)
{return (a + b);}

Question 11

Correct

Mark 1.00 out of
1.00

The output of the following program is

```
#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 () {
    printf ("%d", calc(2,9));
    return 0;
}
```

Select one:

- ☐ a. 0
- ☐ b. 18
- ☐ c. 2
- ☒ d. 512 ✓

Your answer is correct.

The correct answer is: 512

Question 12

Correct

Mark 1.00 out of
1.00

What does the following program print?

```
#include <stdio.h>
#include <math.h>
void main()
{
    double pi = 3.1415926535;
    int a = 1;
    int i;
    for(i=0; i < 3; i++)
        if(a = cos(pi * i/2) )
            printf("%d ",1);
        else printf("%d ", 0);
}
```

Select one:

- ☒ a. **101** ✓
- ☐ b. **010**
- ☐ c. **000**
- ☐ d. **111**

Your answer is correct.

The correct answer is: **101**

Question 13

Correct

Mark 1.00 out of
1.00**How many elements of array are printed?**

```
#include <stdio.h>

int main () {

    /* an array with 5 rows and 2 columns*/
    int a[5][2] = { {0,0}, {1,2}, {2,4}, {3,6},{4,8}};
    int i, j;

    /* output each array element's value */
    for ( i = 0; i < 4; i++ ) {

        for ( j = 0; j < 1; j++ ) {
            printf("a[%d][%d] = %d\n", i,j, a[i][j] );
        }
    }

    return 0;
}
```

Select one:

- ☐ a. None of these
- ☐ b. 3
- ☒ c. 4 ✓
- ☐ d. 5

Your answer is correct.

The correct answer is: 4

Question 14

Correct

Mark 1.00 out of
1.00

What is the output of the following code?

```
void main()
{
    int i;
    int arr[100] = {sizeof(arr)/sizeof(arr[0])};
    for (i = 0; i < 5; i++)
        printf("%d ", arr[i]);
}
```

Select one:

- ☐ a. Compilation Error
- ☐ b. Runtime Error
- ☐ c. 0 0 0 0 0
- ☒ d. 100 0 0 0 0 ✓

Your answer is correct.

The correct answer is: 100 0 0 0 0

Question 15

Correct

Mark 1.00 out of
1.00

What will be the output of the following code for the input "Hello World"?

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

```
int main()
{
    char str1[10];
    scanf("%s",str1);
    printf("%s",str1);
    return 0;
}
```

Select one:

- ☐ a. Compiler error
- ☒ b. Hello ✓
- ☐ c. Hello World
- ☐ d. H

Your answer is correct.

The correct answer is: Hello

Question 16

Correct

Mark 1.00 out of
1.00

What is the output of the following program?

```
#include <stdio.h>
int g(int);
int f (int b)
{
    if(b==0)
        return b;
    else
    {
        --b;
        g(b);
    }
}
int g (int a)
{
    if(a==0)
        return a;
    else
    {
        --a;
        f(a);
    }
}
int main()
{
    int a = 7;
    printf ("%d ", g(a));
    return 0;
}
```

Select one:

- ☐ a. Compile error
- ☒ b. 0 ✓
- ☐ c. Infinite Loop
- ☐ d. 7

Your answer is correct.

The correct answer is: 0

Question 17

Correct

Mark 1.00 out of
1.00

What should be substituted in place of 'X' in the below program so as to get output as "ISE2"?

```
#include <stdio.h>
int main()
{
    char arr[] = "PSIP ISE2";
    printf("%s", X);
    return 0;
}
```

Select one:

- ☐ a. Not possible
- ☐ b. (arr+4)
- ☒ c. (arr+5) ✓
- ☐ d. arr

Your answer is correct.

The correct answer is: (arr+5)

Question 18

Correct

Mark 1.00 out of
1.00**What is the output of the following code?**

```
#include<stdio.h>

void dynamic(int s, ...)
{
    printf("%d ", s);
}

int main()
{
    dynamic(2, 4, 6, 8);
    dynamic(3, 6, 9);
    return 0;
}
```

Select one:

- ☐ a. **Compiler Error**
- ☐ b. **3 2**
- ☒ c. **2 3**
- ☐ d. **4 3**



Your answer is correct. Correct answer is 2 3.

The correct answers are:

2 3**, Compiler Error, 4 3, 3 2**

Question 19

Incorrect

Mark 0.00 out of
1.00

The output of the following program is

```
#include <stdio.h>
int collatz_repeat(int n)
{
    if ( n == 1 ) {
        return 0;
    }else{
        if ( n % 2 == 1 ) {
            return 1 + collatz_repeat(3*n+1);
        }else{
            return 1 + collatz_repeat(n/2);
        }
    }
}
int main()
{
    printf("%d\n", collatz_repeat(4));
    return 0;
}
```

Select one:

- ☐ a. 2
- ☐ b. 4
- ☒ c. 12 ✖
- ☐ d. 5

Your answer is incorrect.

The correct answer is: 2

Question 20

Correct

Mark 1.00 out of
1.00

What is the output?

```
#include <stdio.h>

int incr(int i)
{
    int count = 0;
    count = count + i;
    return (count);
}

int main()
{
    int i,j;
    for (i = 0; i <=4; i++)
    {
        j = incr(i);
        printf("%d ",j);
    }
    return 0;
}
```

Select one:

- ☐ a. 1 2 3 4 5
- ☒ b. 0 1 2 3 4 ✓
- ☐ c. Program will not run
- ☐ d. 1 1 1 1 1

Your answer is correct.

The correct answer is:

0 1 2 3 4

Question 21

Incorrect

Mark 0.00 out of
1.00**Which of the following is acceptable?**

- A) `int arr1[][3] = { 12, 34, 23, 45, 56, 45 } ;`
- B) `int arr2[2][] = { 12, 34, 23, 45, 56, 45 } ;`
- C) `int arr3[][] = { 12, 34, 23, 45, 56, 45 } ;`
- D) None of the above

Select one:

☒

a.

Option D☐

b.

Option A☐

c.

Option C☐

d.

Option B

Your answer is incorrect.

The correct answer is:

Option A

Question 22

Incorrect

Mark 0.00 out of
1.00**How many times will Hi be printed?**

```
#include<stdio.h>
int i;
int fun();

int main()
{
    while(i)
    {
        fun();
        main();
    }
    printf("Hello\n");
    return 0;
}
int fun()
{
    printf("Hi");
}
```

Select one:

- ☒ a. **Infinite times**
✗
- ☐ b. **Zero**
- ☐ c. **Once**
- ☐ d. **Compiler error**

Your answer is incorrect.

The correct answer is: **Zero**


Question **23**

Correct

Mark 1.00 out of
1.00

Any C program

Select one:

- ☐ a.
None of given options
- ☒ b.
Must contain at least one function.

- ☐ c.
Needs input data.
- ☐ d.
Need not contain any function.

Your answer is correct.

The correct answer is:

Must contain at least one function.

Question 24

Correct

Mark 1.00 out of
1.00

What is the output of the following code?

```
#include <stdio.h>

void change(float age[]);

int main()
{
    float result, age[] = {23.4, 55, 22.6, 3, 40.5, 18};
    printf("%.2f", age[0]);
    change(age);
    printf("%.2f", age[0]);
    return 0;
}

void change(float age[])
{
    age[0]=11.4;
}
```

Select one:

- ☐ a. Compilation Error
- ☒ b. 23.40 11.40 ✓
- ☐ c. 55.00 11.40
- ☐ d. 23.40 23.40

Your answer is correct.

The correct answer is: 23.40 11.40

Question 25

Incorrect

Mark 0.00 out of
1.00

Guess the output of the following program if the input characters 'a', 'b' and 'c' are supplied to it.

```
#include <stdio.h>
#include <string.h>
int main()
{
    void fun();
    fun();
    printf("\n");
    return 0;
}
void fun()
{
    char c;
    if((c = getchar())!= '\n')
        fun();
    printf("%c", c);
}
```

Select one:

- ☐ a. bca
- ☒ b. abc ✖
- ☐ c. cba
- ☐ d. abc abc

Your answer is incorrect.

The correct answer is: cba

Question 26

Incorrect

Mark 0.00 out of
1.00

What does the program below print?


```
#include <stdio.h>

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 ("%dn", sum);

    return 0;
}
```

Select one:

- ☐ a. 8, 4, 0, 2, 14
- ☒ b. 8, 4, 0, 2, 0
- 
- ☐ c. 2, 0, 4, 8, 0
- ☐ d. 2, 0, 4, 8, 14

Your answer is incorrect.

The correct answer is: 2, 0, 4, 8, 0

Question **27**

Correct

Mark 1.00 out of
1.00

Choose a correct statement about C Language Functions.

Select one or more:

☐

a.

A function name can start with an Underscore(_) or A to Z or a to z.

☒

b.

All given options

☐

c. **Default return type of any function is an Integer**

☐

d.

A function name can not be same as a predefined C Keyword.

Your answer is correct.

The correct answer is:

All given options

Question 28

Incorrect

Mark 0.00 out of
1.00

What will be the output?

```
#include<stdio.h>
int a=10;
void compute(int a)
{
    a=a;
}
int main()
{
    int a=100;
    printf("%d ",a);
    compute(a);
    printf("%d",a);
    return 0;
}
```

Select one:

- ☒ a. **Compile time error**
✗
- ☐ b. **100 10**
- ☐ c. **100 100**
- ☐ d. **10 10**

Your answer is incorrect.

The correct answer is: **100 100**

Question 29

Correct

Mark 1.00 out of
1.00

What is the output of the following code?

```
void main()
{
    int arr[5]={10,20,45,30,89};
    printf("%d\n", 3[arr] / 1[arr]);
}
```

Select one:

- ☐ a. 3
- ☐ b. 4
- ☐ c. 2
- ☒ d. 1 ✓

Your answer is correct.

The correct answer is: 1

Question 30

Correct

Mark 1.00 out of
1.00

What is the output of the following C program?

```
#include<stdio.h>
#include<string.h>
int main()
{
    char str1[]="GOOD ";
    char str2[15]="MORNING ";
    strcat(str2,str1);
    printf("%s",str2);
    printf("%s",str1);
    return 0;
}
```

Select one:

- ☐ a. GOOD GOOD
- ☐ b. MORNING GOOD MORNING GOOD
- ☒ c. MORNING GOOD GOOD ✓
- ☐ d. GOOD MORNING GOOD MORNING

Your answer is correct.

The correct answer is: MORNING GOOD GOOD

Question 31

Incorrect

Mark 0.00 out of
1.00

Consider the following:

```
#include <stdio.h>

void fun(int a , int b){
    printf("%d %d ",(a+1),(b=a+2));
}

int main()
{
    int a = 20;
    int b = 30;
    fun(a,b);
    return 0;
}
```

The output for the code if the compiler evaluates function parameters from right to left will be:

Select one:

☐ a.
21 23☐ b.
21 32☒ c.
Compiler Error due to (b=a+2) in the first printf().
✗☐ d. 21 22

Your answer is incorrect.

The correct answer is: **21 22**

Question 32

Correct

Mark 1.00 out of
1.00

Consider the following two-dimensional array definition.
`int values[3][4] = (1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12);`
What is `values[1][3]` ?

Select one:

- ☒ a. 8 ✓
- ☐ b. 10
- ☐ c. 9
- ☐ d. 7

Your answer is correct.

The correct answer is: 8

Question 33

Correct

Mark 1.00 out of
1.00

What is the output of the following code?

```
int main()
{
    char grade[] = {'A','B','C'};
    printf("%d", grade);
    return 0;
}
```

Select one:

- ☐ a. 65
- ☐ b. A
- ☐ c. Compilation Error
- ☒ d. Address ✓

Your answer is correct.

The correct answer is: Address

Question 34

Incorrect

Mark 0.00 out of
1.00

What is the output of the following?

```
#include <stdio.h>
int f (int );
int g (int );

int main()
{
    int a = 3, b = 6, count;
    for (count = 1; count <= 2; ++count)
    {
        b += f(a) + g(b);
        printf ("%d ", b);
    }
    return 0;
}

int f(int x)
{
    int y;
    y = g(x);
    return (y);
}

int g(int x)
{
    int y = 10;
    y += 1;
    return (y+x);
}
```

Select one:

- ☐ a. 37 99
- ☐ b. 37 100
- ☒ c. 35 100 ✖
- ☐ d. 36 99

Your answer is incorrect.

The correct answer is: **37 99**

Question 35

Correct

Mark 1.00 out of
1.00**What is the output?**

```
#include <stdio.h>
void fun(int mat[][] )
{
    mat[0][1] = 3;
    int i = 0, j = 0;
    for (i = 0; i < 3; i++)
        for (j = 0; j < 3; j++)
            printf("%d", mat[i][j]);
}
void main()
{
    int arr[3][3] = {0};
    fun(arr);
}
```

Select one:

- ☐ a. 030000000
- ☒ b. **Compilation error** ✓
- ☐ c. 300000000
- ☐ d. 003000000

Your answer is correct.

The correct answer is: **Compilation error**

Question 36

Correct

Mark 1.00 out of
1.00

What will be the output of the following program if `str1="abc"` and `str2="afv"`?

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

int main()
{
    char str1[5], str2[5];
    int i;
    scanf("%s",str1);
    scanf("%s",str2);
    i = strcmp(str1, str2);
    printf("%d\n", i);
    return 0;
}
```

Select one:

- ☒ a. -4 ✓
- ☐ b. 24
- ☐ c. -24
- ☐ d. 4

Your answer is correct.

The correct answer is: -4

Question 37

Incorrect

Mark 0.00 out of
1.00

Consider the following code:

```
#include <stdio.h>
double fun (double); /* Line fun */

int main()
{
    double da, db;
    // input da
    db = fun(da);
    return 0;
}

double fun(double a)
{
    return a;
}
```

If we delete Line fun above, the output will have:

Select one:

- ☐ a.
compiler errors only
- ☐ b. compiler warnings only
- ☒ c.
no compiler warnings and errors
✗
- ☐ d.
compiler errors and warnings both

Your answer is incorrect.

The correct answer is:

compiler errors and warnings both

Question 38

Correct

Mark 1.00 out of
1.00

What is the output of the following code?

```
void main()
{

    int a[5] = {4, 0, 15, 20, 25};

    ++a[4];
    a[4]++;
    a[1]++;
    printf("%d, %d", a[1], a[4]);

}
```

Select one:

- ☐ a. 0, 26
- ☒ b. 1, 27 ✓
- ☐ c. 0, 27
- ☐ d. 1, 26

Your answer is correct.

The correct answer is: 1, 27

Question 39

Correct

Mark 1.00 out of
1.00

What will be the output of the following?

```
#include<stdio.h>

int main()
{
    char str1[] = "Hello";
    char str2[] = "Hello";
    if(str1 == str2)
        printf("Equal\n");
    else
        printf("Unequal\n");
    return 0;
}
```

Select one:

- ☐ a. None of the mentioned
- ☐ b. Equal
- ☒ c. Unequal ✓
- ☐ d. Error

Your answer is correct.

The correct answer is: Unequal

Question 40

Correct

Mark 1.00 out of
1.00**How many bytes of memory are occupied by int my_array[5][3] array ?**

Select one:

- ☐ a. 45
- ☐ b. 80
- ☐ c. None of these
- ☒ d. 60 ✓

Your answer is correct.

The correct answer is: 60

◀ ISE-1

Jump to...



ISE-3 ▶