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Unit 10 - Week 8

Assignment 8

The due date for submitting this assignment has passed. Due on 2020-03-25, 23:59 IST.
As per our records you have not submitted this assignment.

1) A function prototype is used for *1 point*

- a) Declaring the function logic
- b) Calling the function from the main body
- c) Telling the compiler, the kind of arguments used in the function
- d) Telling the user for proper use of syntax while calling the function

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) Telling the compiler, the kind of arguments used in the function

2) What is the default return type if it is not specified in function definition? *1 point*

- a) void
- b) integer
- c) double
- d) float

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) integer

3) ***1 point***

What is the error in the following program?

```
#include<stdio.h>
int f(int a)
{
  a > 20? return(10): return(20);
}
int main()
{
    int b;
    b = f(20);
    printf("%d\n", b);
    return 0;
}
```

- a) Error: 'return' statement cannot be used with conditional operators
- b) Error: Prototype declaration
- c) Error: Two return statements cannot be used in any function
- d) No error

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) Error: 'return' statement cannot be used with conditional operators

4) ***1 point***

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Assignment Solution

How many times ‘Hi’ will be printed in the program given below

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

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

- a) Only once
- b) Zero times
- c) Infinite times
- d) Compilation error

No, the answer is incorrect.
Score: 0

Accepted Answers:
b) Zero times

5) ***1 point***

What is the output of the C code given below

```
#include <stdio.h>
float func(float age[]);

int main()
{
   float result, age[] = {23.4, 55, 22.6, 3, 40.5, 18};
   result = func(age);
   printf("%0.2f", result);
   return 0;
}

float func(float age[])
{
   int i;
   float result, sum = 0.0;
   for (i = 0; i < 6; ++i) {
      sum += age[i];
   }
   result = (sum / 6);
   return result;
}
```

- a) 27.08
- b) 27.083334
- c) Compiler error as result is declared twice
- d) Error: Invalid prototype declaration

No, the answer is incorrect.
Score: 0

Accepted Answers:
a) 27.08

6) ***1 point***

What will be the output?

```
#include <stdio.h>
int main( )
{
int i;
for (i=0; i<5; i++)
{
  int i = 10;
  printf ("%d ", i);
  i++;
}
return 0;
}
```

a) 10 11 12 13 14
b) 0 1 2 3 4
c) 10 10 10 10 10
d) Compilation Error

No, the answer is incorrect.
Score: 0

Accepted Answers:
c) 10 10 10 10 10

7)

How many times the function factorial will be executed?

```
#include<stdio.h>
int factorial(int);
int main()
{
int n=10;
long int f;
f = factorial(n);
printf("%d! = %ld\n", n, f);
return 0;
}
int factorial(int n)
{
if (n == 0)
return 1;
else
return(n * factorial(n-1));
}
```

Hint

No, the answer is incorrect.
Score: 0

Accepted Answers:
(Type: Numeric) 11

1 point

8) ***1 point***

What will be the output?

```
#include <stdio.h>
void 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;
}
```

- a) Before swapping num1 = 10 num2 = 20
  After swapping num1 = 10 num2 = 20
- b) Before swapping num1 = 10 num2 = 20
  After swapping num1 = 20 num2 = 10
- c) Before swapping num1 = 10 num2 = 20
  After swapping num1 = 20 num2 = 20
- d) Before swapping num1 = 10 num2 = 20
  After swapping num1 = 10 num2 = 10

No, the answer is incorrect.
Score: 0

Accepted Answers:

a) Before swapping num1 = 10 num2 = 20
After swapping num1 = 10 num2 = 20

9) ***1 point***

Consider the following C function definition:

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

The function func():

- (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, c
- (d) None of the above

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c) Finds the middle number of a, b, c

10 ***1 point***

Consider the following C function definition.

```
int f(int j)
{
  static int i = 50;
  int k;
  if (i == j)
  {
    printf("something");
    k = f(i);
    return 0;
  }
  else return 0;
}
```

Which one of the following is TRUE?

- (a) The function returns 0 for all values of j.
- (b) The function prints the string something for all values of j.
- (c) The function returns 0 when j = 50.
- (d) The function will exhaust the runtime stack or run into an infinite loop when j = 50

No, the answer is incorrect.
Score: 0

Accepted Answers:

(d) The function will exhaust the runtime stack or run into an infinite loop when j = 50