Talent Transformation (2019)

Started on	Tuesday, 28 August 2018, 2:17 PM
State	Finished
Completed on	Tuesday, 28 August 2018, 2:25 PM
Time taken	7 mins 55 secs
Grade	**5.00** out of 10.00 (**50**%)

Question 1

Correct

Mark 1.00 out of 1.00

Flag question

On left shifting, the bits from the left are rotated and brought to the right and accommodated where there is empty space on the right?

Select one:

- a. False ✓
- b. True

The correct answer is: False

Question 2

Incorrect

Mark 0.00 out of 1.00

Flag question

Bitwise can be used to generate a random number.

Select one:

- a. No
- b. Yes ✗

The correct answer is: No

Question 3

Correct

Mark 1.00 out of 1.00

Flag question

Assunming, integer is 2 byte, What will be the output of the program?

```
#include<stdio.h>
int main()
{
printf("%x\n", -1>>1);
return 0;
}
```

Select one:

- a. fff0
- b. ffff ✓
- c. 0fff
- d. 0000

Explanation:

Negative numbers are treated with 2's complement metho
1's complement: Inverting the bits (all 1s to 0s and all 0s to 1s)
2's complement: Adding 1 to the result of 1's complement.
Binary of 1(2byte) : 0000 0000 0000 0001
Representing -1:
1s complement of 1(2byte) : 1111 1111 1111 1110
Adding 1 to 1's comp. result : 1111 1111 1111 1111
Right shift 1bit(-1>>1): 1111 1111 1111 1111 (carry out 1)
Hexadecimal : f f f f
(Filled with 1s in the left side in the above step)
Note:
1. Fill with 1s in the left side for right shift for negative numbers.
2. Fill with 0s in the right side for left shift for negative numbers.
3. Fill with 0s in the left side for right shift for positive numbers.
4. Fill with 0s in the right side for left shift for positive numbers.

The correct answer is: ffff

Question 4

Incorrect

Mark 0.00 out of 1.00

Flag question

If an unsigned int is 2 bytes wide then, What will be the output of the program ?

```
#include<stdio.h>
int main()
{
unsigned int m = 32;
printf("%x\n", ~m);
return 0;
}
```

Select one:

- a. ffdf
- b. ffff
- c. ddfd ✗
- d. 0000

The correct answer is: ffdf

Question 5

Correct

Mark 1.00 out of 1.00

Flag question

What is the output of the program

```
#include<stdio.h>
int main()
{
extern int fun(float);
int a;
a = fun(3.14);
printf("%d\n", a);
return 0;
}
int fun(int aa)
{
return (int)++aa;
}
```

Select one:

- a. Compile Error ✓
- b. 3
- c. 4
- d. 0
- e. 3.14

Explanation:

2 Errors
1. Type mismatch in redeclaration of fun
2. Type mismatch in parameter aa

The correct answer is: Compile Error

Question 6

Incorrect

Mark 0.00 out of 1.00

Flag question

Is there any difference between following declarations?
1 :extern int fun();
2 :int fun();

Select one:

- a. None of these
- b. int fun(); is overrided with extern int fun(); ✗
- c. No difference, except extern int fun(); is probably in another file
- d. Both are identical

Explanation:

extern int fun(); declaration in C is to indicate the existence of a global function and it is defined externally to the current module or in another file.
int fun(); declaration in C is to indicate the existence of a function inside the current module or in the same file.

The correct answer is: No difference, except extern int fun(); is probably in another file

Question 7

Correct

Mark 1.00 out of 1.00

Flag question

Which of the structure is correct?

```
1 :struct book
{
char name[10];
float price;
int pages;
};
2 :struct aa
{
char name[10];
float price;
int pages;
}
3 :struct aa
{
char name[10];
float price;
int pages;
}
```

Select one:

- a. 1 ✓
- b. 2
- c. 3
- d. All of above

Explanation:

In 2 and 3 semicolon are missing in structure element.

The correct answer is: 1

Question 8

Incorrect

Mark 0.00 out of 1.00

What is the output of the program

```
#include<stdio.h>
int main()
{
struct emp
```

Flag question

```
{
char name[20];
int age;
float sal;
};
struct emp e = {"Tiger"};
printf("%d, %f\n", e.age, e.sal);
return 0;
}
```

Select one:

- a. Error
- b. Garbage values
- c. None of above ✗
- d. 0, 0.000000

Explanation:

When an automatic structure is partially initialized remaining elements are initialized to 0(zero).

The correct answer is: 0, 0.000000

Question 9

Correct

Mark 1.00 out of 1.00

Flag question

What will be the output of the program ?

```
#include<stdio.h>
int main()
{
char *str;
str = "%d\n";
str++;
str++;
printf(str-2, 300);
return 0;
}
```

Select one:

- a. 300 ✓
- b. 3
- c. No output
- d. 30

The correct answer is: 300

Question 10

Incorrect

Mark 0.00 out of 1.00

Flag question

Which of the statements is correct about the program?

```
#include<stdio.h>
int main()
{
int arr[3][3] = {1, 2, 3, 4};
printf("%d\n", *(*(*(arr))));
return 0;
}
```

Select one:

- a. Output: 1
- b. Output: 3
- c. Error: Invalid indirection
- d. Output: Garbage value ✗

The correct answer is: Error: Invalid indirection

Finish review

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Finish review

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