

C Quiz 10 (File Handling, Bitwise Operators)(05-12-2023)

1. What is output of following Code?

```
int main(){
```

```
int a,b,c;
a=4;
b=2;
c=a<<b && a>>b;
printf("%d",c);
}
```

Answers

- 1. 1
- 2. 0
- 3. 4
- 4. 2

2. What is output of following Code?

```
int main()
```

```
{
int a,b,c;
a=4;
b=2;
c=~(a^b / a<<b);
printf("%d",c);
}
```

Answers

- 1. 5
- 2. 10
- 3. -5
- 4. -10

3. Left Shift operation is equivalent to.?

Answers

- 1. Division by 2
- 2. Multiplying by 2
- 3. Adding 2
- 4. Subtracting 2

4. What will be output of following code? and text file data.

-----test_file-----

C is a general-purpose, 0 procedural computer programming language supporting structured programming 0, lexical variable scope, and recursion, with a static type system 0.

```
#include <stdio.h>
int main(){
    char c;
    FILE *fp;
    fp=fopen("test_file.txt","r");
    while((c=fgetc(fp))!= 0 )
        printf("%c",c);
    fclose(fp);
    return 0;
}
```

Answers

1. Print the contents of file "test_file.txt"
2. Print the contents of file "test_file.txt" upto '0' character in "test_file.txt"
3. Infinite loop
4. Error in the code.

5. What will be output of following code? and text file having following data.

-----test_file-----

NULL The origin of C is closely tied to the development of the Unix operating system, originally implemented in assembly language on a PDP-7 by Dennis Ritchie and Ken Thompson, incorporating several ideas from colleagues. Eventually, they decided to port the operating system to a PDP-11.

```
#include <stdio.h>
int main()
{
    char buf[10];
    FILE *fp;
    fp=fopen("test_file.txt","r");
    while((fgets(buf, 5, fp))!= NULL)
        printf("%s",buf);
    fclose(fp);
    return 0;
}
```

Answers

1. Print the contents of file "test_file.txt"
2. does not print anything on the console.
3. Infinite loop
4. Stack Smashing error occurred

6. What will be output of following code? and text file having following data.

```
-----t2.txt-----  
ABCDEFGHIJKLMNPO  
-----
```

```
#include <stdio.h>  
int main( void )  
{  
    FILE *fp=NULL;  
    char buf[10];  
    fp = fopen("t2.txt", "r");  
    fseek(fp, +4L, SEEK_CUR);  
    fgets(buf,5,fp);  
    fputs(buf,stdout);  
  
    return 0;  
}
```

Answers

1. ABCDE
2. ABCD
3. EFGH
4. EFGHI

7. What will be the output of the following program ?

```
-----t1.txt-----  
ABCDEFGHIJKLMNPO  
-----
```

```
#include <stdio.h>  
int main( void )  
{  
    int i,start,end;  
    FILE *fp=NULL;  
    char buf;  
  
    fp = fopen("t1.txt", "r");  
    fseek(fp, 0, SEEK_SET);  
    start=ftell(fp);  
    fseek(fp, 0, SEEK_END);  
    end=ftell(fp);  
    printf("\n File char count will be = %d\n",end-start);  
  
    return 0;  
}
```

Answers

1. 16
2. 17
3. 18
4. compiler error.

8. what will be the output of this code?
and will be entered for scanf statement will be

```
//sunbeamdac
//sunbeamdmc
#include<stdio.h>
int main()
{
    int i, n=2;
    char str[50];
    FILE *fptr = fopen("t3.txt", "w");

    for (i=0; i<n; i++)
    {
        puts("Enter a name");
        scanf("%*c%s",str);
        fprintf(fptr,"%d].%s\n", i, str+2);
    }
    fclose(fptr);
    return 0;
}
```

Answers

1. Compiler error
2. 0].beamdac 1].nbeamdmc
3. 0].beamdac 1].beamdmc
4. 0].sunbeamdac 1].sunbeamdmc

9. what will be the output of the following code?

```
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
typedef struct course
{
    int id;
    char Lname[20];
    char Cname[20];
}CRS;

int main ()
{
    FILE *output_file;
    output_file = fopen ("data.dat", "w");

    CRS p1 = {1, "SUNBEAM_PUNE", "DAC"};
    CRS p2 = {2, "SUNBEAM_KARAD", "KDAC"};

    fwrite (&p1, sizeof(CRS), 1, output_file);
    fwrite (&p2, sizeof(CRS), 1, output_file);
    fclose (output_file);

    //FILE *output_file;
    output_file = fopen ("data.dat", "r");
    CRS p;
    fread(&p,sizeof(CRS), 1, output_file);
    fprintf(stdout,"%d %s %s\n",p.id,p.Lname,p.Cname);
    fread(&p,sizeof(CRS), 1, output_file);
    fprintf(stdout,"%d %s %s\n",p.id,p.Lname,p.Cname);
    return 0;
}
```

Answers

- | | |
|-------------------------|----------------------|
| 1. 1 SUNBEAM_PUNE DAC | 2 SUNBEAM_KARAD KDAC |
| 2. 1 SUNBEAM_PUNE DAC | |
| 3. 1 SUNBEAM_PUNE DAC | 1 SUNBEAM_pune DAC |
| 4. 2 SUNBEAM_KARAD KDAC | 2 SUNBEAM_KARAD KDAC |

10. what will be output of following code?

```
#include <stdio.h>
int main ()
{
    FILE *fp;
    int c;

    fp = fopen("file.txt","r");

    while(1)
    {
        c = fgetc(fp);

        if( feof(fp) )
        {
            break ;
        }

        printf("%c", c);
    }
    fclose(fp);

    return(0);
}
```

Answers

1. it will print all the contents of file.
2. doesn't print anything.
3. Infinte loop
4. compiler error

-----Compiled by Utkarsh Singh -----

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