

Logic Building Assignment : 5

Calculate Time Complexity of each program.

1. Write a program which accept number from user and display its digits in reverse order.

Input : 2395

Output : 5
9
3
2

Input : 1018

Output : 8
1
0
1

Input : -1018

Output : 8
1
0
1

Input : 9000

Output : 0
0
0
9

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

```
void DisplayDigit(int iNo)
```

```
{  
    int iDigit = 0;  
  
    if(_____)  
    {  
        iNo = -iNo;  
    }  
  
    while(_____)  
    {  
        iDigit = _____;  
        printf("%d",iDigit);  
    }  
}
```

```

    _____ = _____ / _____;
}
}

```

```

int main()
{
    int iValue = 0;

    printf("Enter number");
    scanf("%d",&iValue);

    DisplayDigit(iValue);

    return 0;
}

```

2. Write a program which accept number from user and check whether it contains 0 in it or not.

Input : 2395
 Output : There is no Zero

Input : 1018
 Output : It Contains Zero

Input : 9000
 Output : It Contains Zero

Input : 10687
 Output : It Contains Zero

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

```
#define TRUE 1
#define FALSE 0
```

```
typedef int BOOL;
```

```

BOOL ChkZero(int iNo)
{
    // Logic
}

```

```

int main()
{
    int iValue = 0;
    BOOL bRet = FALSE;
}

```

```
printf("Enter number");
scanf("%d",&iValue);

bRet = ChkZero(iValue);

if(bRet == TRUE)
{
    printf("It Contains Zero");
}
else
{
    printf("There is no Zero")
}

return 0;
}
```

3. Write a program which accept number from user and count frequency of 2 in it.

Input : 2395

Output : 1

Input : 1018

Output : 0

Input : 9000

Output : 0

Input : 922432

Output : 3

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

```
int CountTwo(int iNo)
```

```
{
    // Logic
}
```

```
int main()
```

```
{
    int iValue = 0;
    int bRet = 0;

    printf("Enter number");
    scanf("%d",&iValue);
```

```
iRet = CountTwo(iValue);

printf("%d",iRet);

return 0;

}
```

4. Write a program which accept number from user and count frequency of 4 in it.

Input : 2395
Output : 0

Input : 1018
Output : 0

Input : 9440
Output : 2

Input : 922432
Output : 1

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

```
int CountFour(int iNo)
{
    // Logic
}
```

```
int main()
{
    int iValue = 0;
    int iRet = 0;

    printf("Enter number");
    scanf("%d",&iValue);

    iRet = CountFour(iValue);

    printf("%d",iRet);

    return 0;
}
```

5. Write a program which accept number from user and count frequency of such a digits which are less than 6.

Input : 2395

Output : 3

Input : 1018

Output : 3

Input : 9440

Output : 3

Input : 96672

Output : 1

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

```
int Count(int iNo)
```

```
{  
    // Logic  
}
```

```
int main()
```

```
{  
    int iValue = 0;  
    int iRet = 0;  
  
    printf("Enter number");  
    scanf("%d",&iValue);  
  
    iRet = Count(iValue);  
  
    printf("%d",iRet);  
  
    return 0;  
}
```