



Chapter 8:

Data Structures -1 Linear Lists (Basics) (C)

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```
#WAP TO ENTER N ELEMENT OF INTEGERS AND FIND  
#THE GREATEST ONE.
```

```
L= []
```

```
N=int(input("Enter How many number of elements"  
            "you want to enter"))
```

```
for i in range(N):  
    num=int(input("Enter number"))  
    L.append(num)
```

```
max=L[0]
```

```
for i in L:  
    if i>max:  
        max=i
```

```
print("The greatest value is ",max)
```

```
#Alternate
```

```
L= []
```

```
N=int(input("Enter How many number of elements"  
            "you want to enter"))
```

```
for i in range(N):  
    num=int(input("Enter number"))  
    L.append(num)
```

```
print("The greatest number is ", max(L))
```

```
#WAP TO ENTER N ELEMENT OF INTEGERS AND  
#FIND THE SMALLEST ONE.  
  
L=[]  
  
N=int(input("Enter How many number of "  
            "elements you want to enter"))  
  
for i in range(N):  
    num=int(input("Enter number"))  
    L.append(num)  
  
min=L[0]  
for i in range(1,N):  
    if L[i]<min:  
        min=L[i]  
  
print("The smallest value is ", min)
```

#Alternate

```
L=[]  
  
N=int(input("Enter How many number of "  
            "elements you want to enter"))  
  
for i in range(N):  
    num=int(input("Enter number"))  
    L.append(num)  
  
print("The smallest value is ", min(L))
```

```
#WAP TO ENTER N ELEMENT OF INTEGERS AND  
#FIND THE AVERAGE VALUES OF ALL THE ELEMENTS
```

```
L= [ ]
```

```
N=int(input("Enter How many number of "  
            ":elements you want to enter"))
```

```
for i in range(N):  
    num=int(input("Enter number"))  
    L.append(num)
```

```
print("The average value is ",sum(L)/len(L))
```

```
#WAP TO ENTER N ELEMENT OF INTEGERS AND  
#COUNT TOTAL EVEN ELEMENTS.
```

```
L= [ ]
```

```
N=int(input("Enter How many number of "  
            ":elements you want to enter"))
```

```
print("Enter ", N, " Elements")
```

```
for i in range(N):  
    print("Enter number : ",i+1)  
    num=int(input())  
    L.append(num)
```

```
c=0
```

```
for i in L:  
    if i%2==0:  
        c=c+1
```

```
print("Total number of Even elements are ",c)
```

```
#WAP TO ENTER N ELEMENT OF INTEGERS AND  
#COUNT TOTAL ODD ELEMENTS.
```

```
L=[]  
N=int(input("Enter How many number of "  
            "elements you want to enter"))  
  
print("Enter ", N, " Elements")  
  
for i in range(N):  
    print("Enter number : ",i+1)  
    num=int(input())  
    L.append(num)  
c=0  
for i in L:  
    if i%2!=0:  
        c=c+1  
print("Total number of Odd elements are ",c)
```

```
#WAP TO ENTER N ELEMENT OF INTEGERS AND  
#COUNT TOTAL PRIME ELEMENTS.
```

```
L=[]  
N=int(input("Enter How many number of "  
            "elements you want to enter"))  
print("Enter ", N, " Elements")  
for i in range(N):  
    print("Enter number : ",i+1)  
    num=int(input())  
    L.append(num)  
p=0  
for i in L:  
    c=0  
    for j in range(1,i+1):  
        if i%j==0:  
            c=c+1  
    if c==2:  
        p=p+1  
print("Total number of Odd elements are ",p)
```



Thank You

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