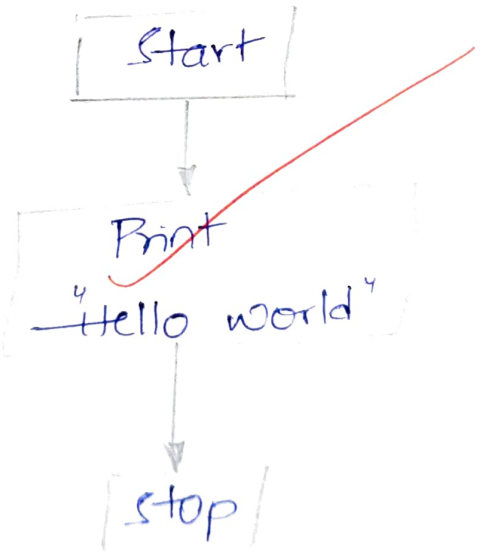
Write a programme to display "Hello world"

Program to display "Hello world"

```
#include <stdio.h>
Void main()
{
Printf("Hello world");
getch();
}
```

Flow chart:



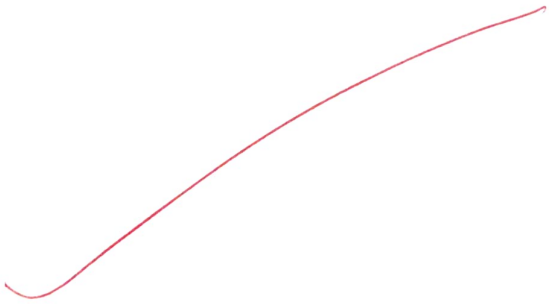
Output:

Hello world

Write a program to implement arithem-
-etic operations using switch case.

```
#include <stdio.h>
#include <conio.h>
int main()
{
int a, b;
int OP;
Printf ("1*Addition 2* Substraction 3* Division;
        4* Multiplication\n");
Printf ("Enter values of a and b \n");
Scanf ("%d %d", &a, &b);
Printf ("\nEnter your choice");
Scanf ("%d", &OP);
Switch (OP)
{
Case 1:
Printf ("Addition of %d & and %d
        is: %d", &a, &b, a+b);
break;
Case 2:
Printf ("Substraction of %d and %d
is: %d", a, b, b-a);
```

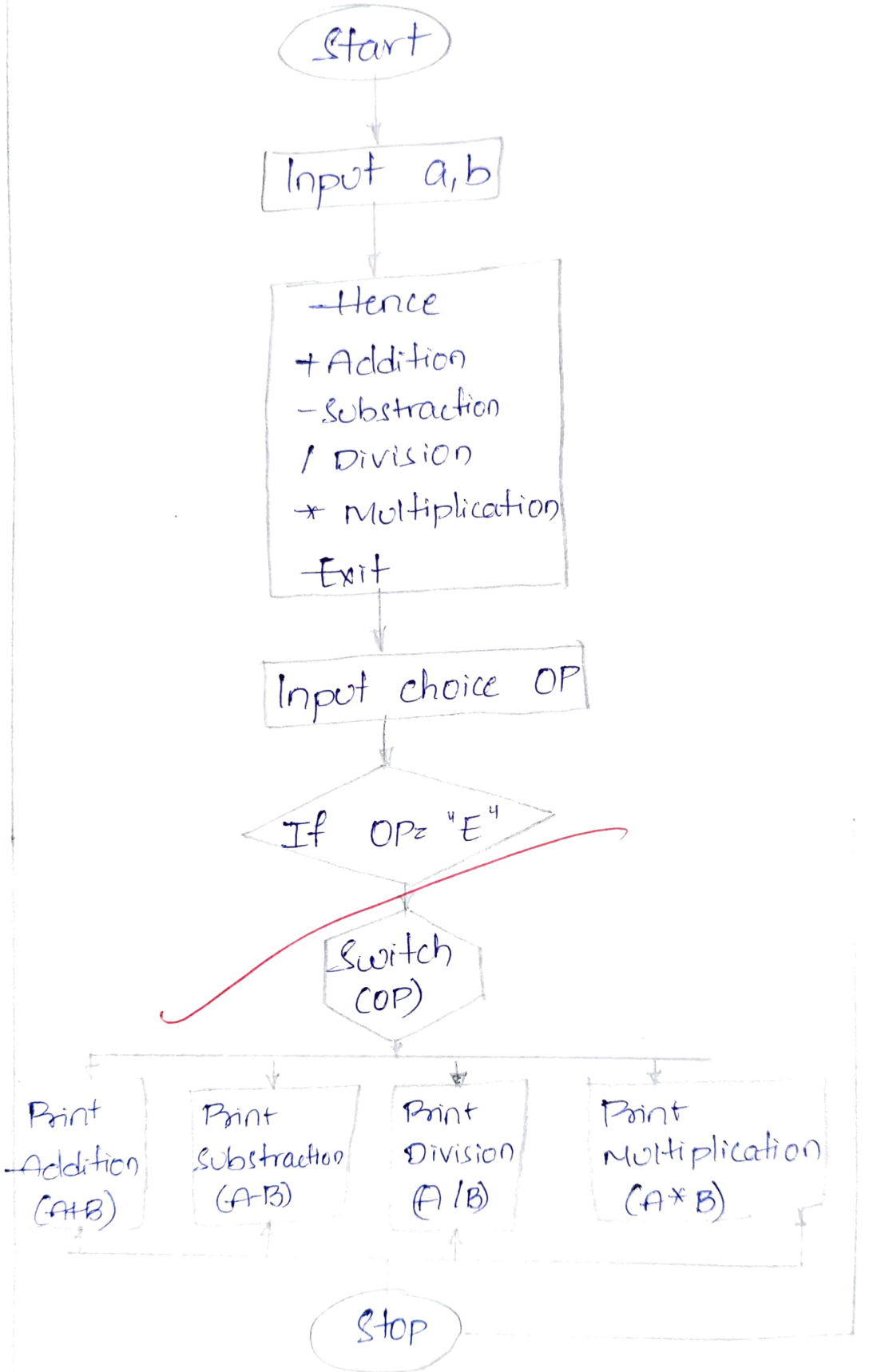
```
break;
Case 3:
Printf("The division of %d from %d
        is: %d, a, b, a/b);

break;
Print Case 4:
Printf("The multiplication of %d with %d
        is: %d, a, b, a*b);

break;
default:
Printf("Enter the correct choice");
break;
}
return 0;
}
```



Output:-

1*Addition; 2* Substraction; 3* ~~No~~Division;
4* ~~Division~~; Multiplication;
Enter values of a and b;
8 5
Enter your choice
2
Substraction of 8 and 5 is 3.

Flow chart:


Start
Input a,b
Hence
+ Addition
- Substraction
/ Division
* Multiplication
Exit
Input choice OP
If OP= "E"
Switch (OP)
Print Addition (A+B)
Print Substraction (A-B)
Print Division (A/B)
Print Multiplication (A*B)
Stop

Find whether the given integer is Palindrome or Not

```
#include <stdio.h>
#include <conio.h>
void main()
{
int n, temp=0, rev=0, r;
clrscr();
Printf("Enter a number");
Scanf("%d", &n);
temp=n;
while (n!=0)
{
r = n%10;
rev=rev*10+r;
n=n/10;
}
Printf("The reverse of number is
        %d", rev);
if (temp==rev)
Printf("The number is palindrome \n");
else
Printf("It is Not a palindrome \n");
}
```

Output

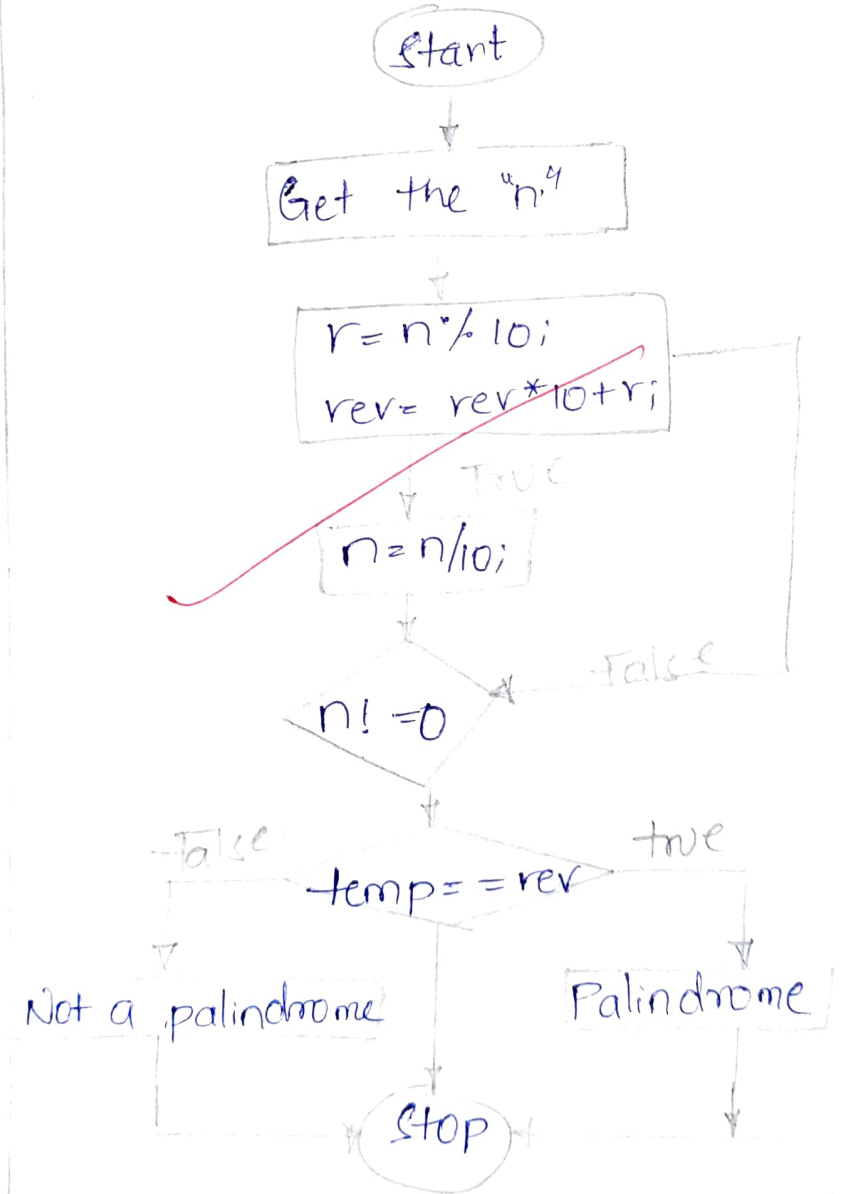
Enter a number

1221

The reverse of number is 1221

The number is palindrome.

Flow chart



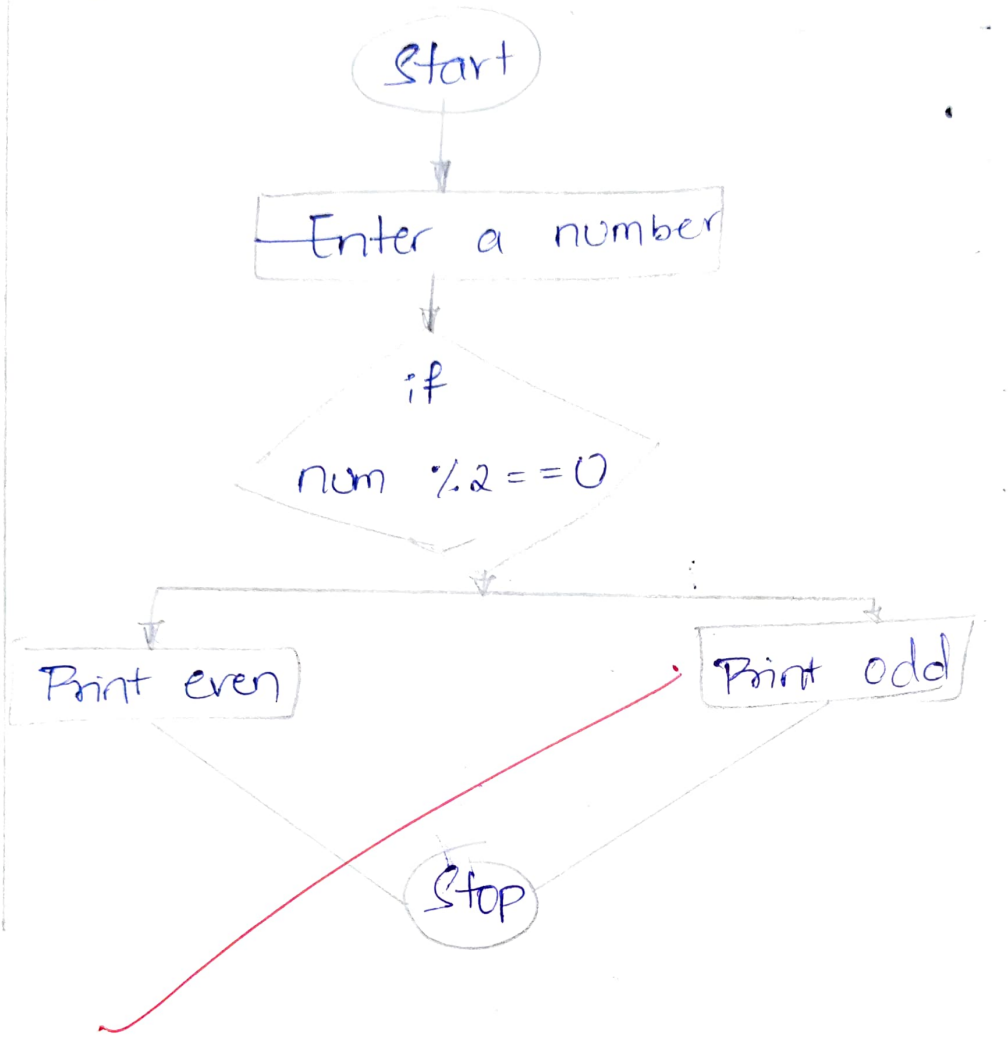
Find whether the given Number is even or odd

```
#include <stdio.h>
#include <conio.h>
int main()
{
int num;
Printf ("Enter a number");
Scanf ("%d", &num);
if (num%.2==0)
Printf ("%d is an even number", num);
else
Printf ("%d is an odd number", odd);
return 0;
}
```

Output

Enter a number
6
6 is an even number

Flow chart:

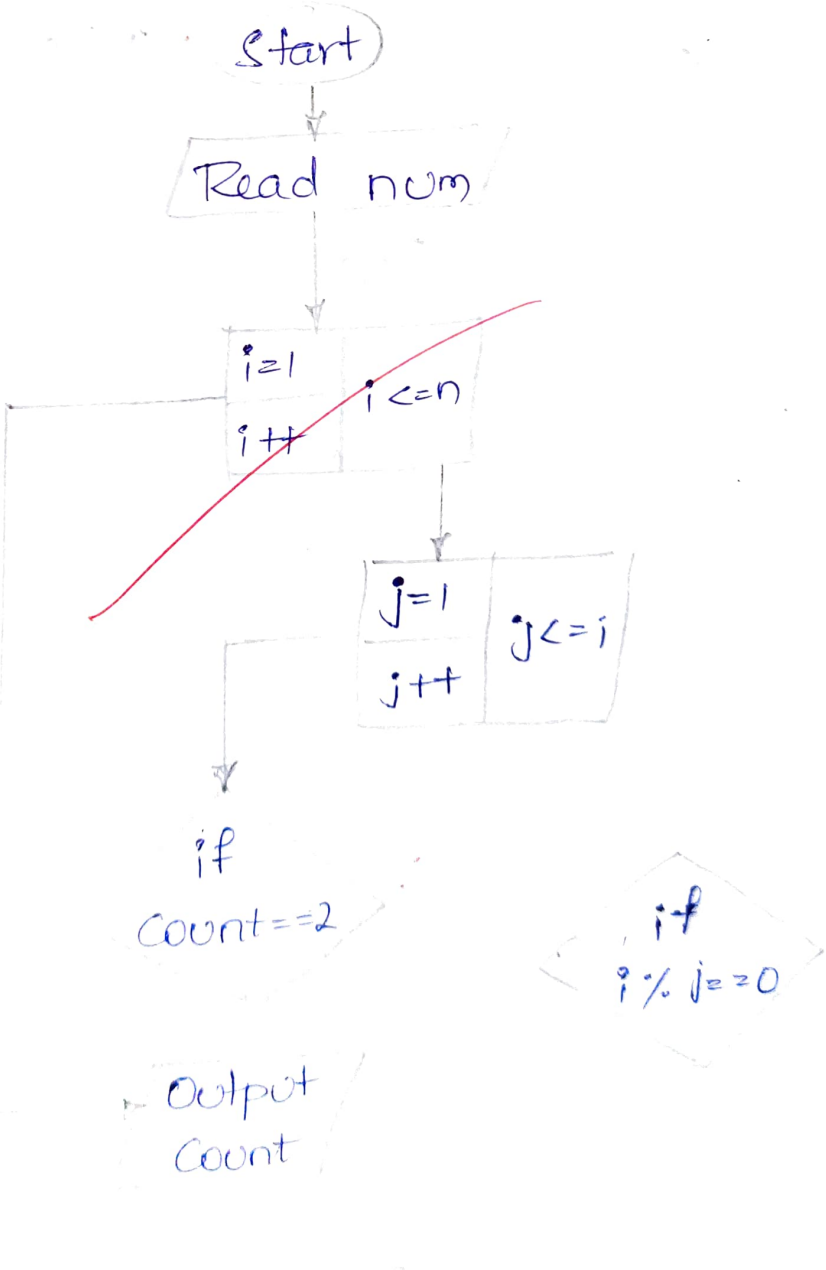


Output:

Enter a range of number

20
2
3
5
7
11
13
17
19

Flow chart:



Write a programme to write a prime numbers from series 1 to 100.

```
#include <stdio.h>
#include <conio.h>
void main()
{
int i,j,num,count=0;
Printf("Enter a range of numbers \n");
Scanf("%d", num);
for(i=1;i<=num;i++)
{
count=0;
for(j=1;j<=i;j++)
{ if(i%j==0) count++; }
if(count==2)
Printf("%d \n", i);
}
getch();
}
```

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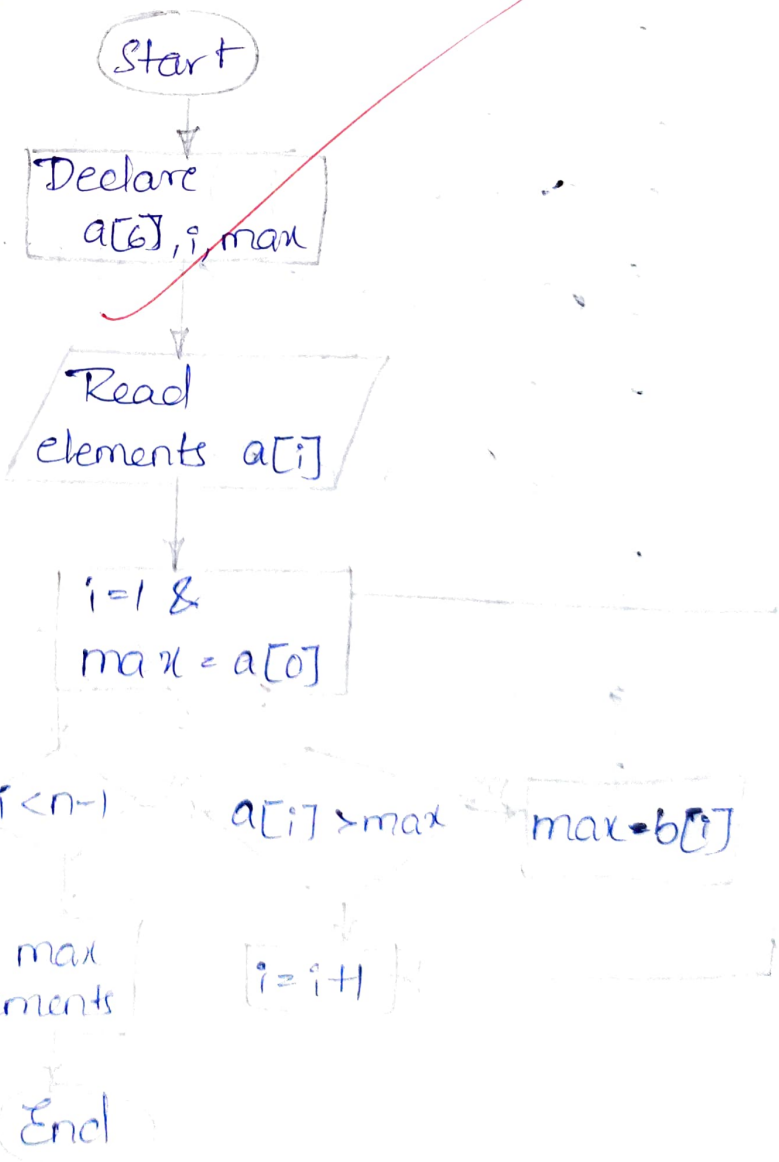
Output:

```
Enter the values of array: 1
2
3
5
7
9
Entered values are: 1
2
3
5
7
9
The maximum number is: 9
```

Flow chart:



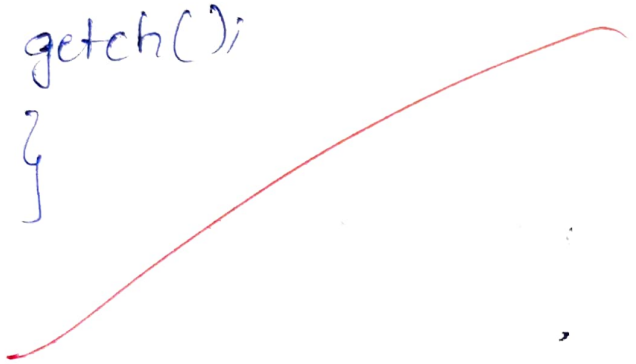
Write a program to read elements into an array and find the

(i) Maximum number in Array
(ii) Minimum Number in Array
(iii) Sorting the array
(iv) Summing elements in an array
(v) Search an element in an array.

Program

```
//maximum number
#include <stdio.h>
#include <conio.h>
void main()
{
int a[6], i, max=0;
clrscr();
Printf("Enter the values of array: ");
for (i=0; i<6; i++)
{
scanf ("%d", &a[i]);
}
Printf ("Entered values are: ");
for(i=0; i<6; i++)
Printf ("%d\n", a[i]);
max = a[0];
```

```
for (i=1;i<6; i++)
if (a[i]>max)
max = a[i];
Printf ("The maximum number is %d \n",
        max);
getch();
}
```



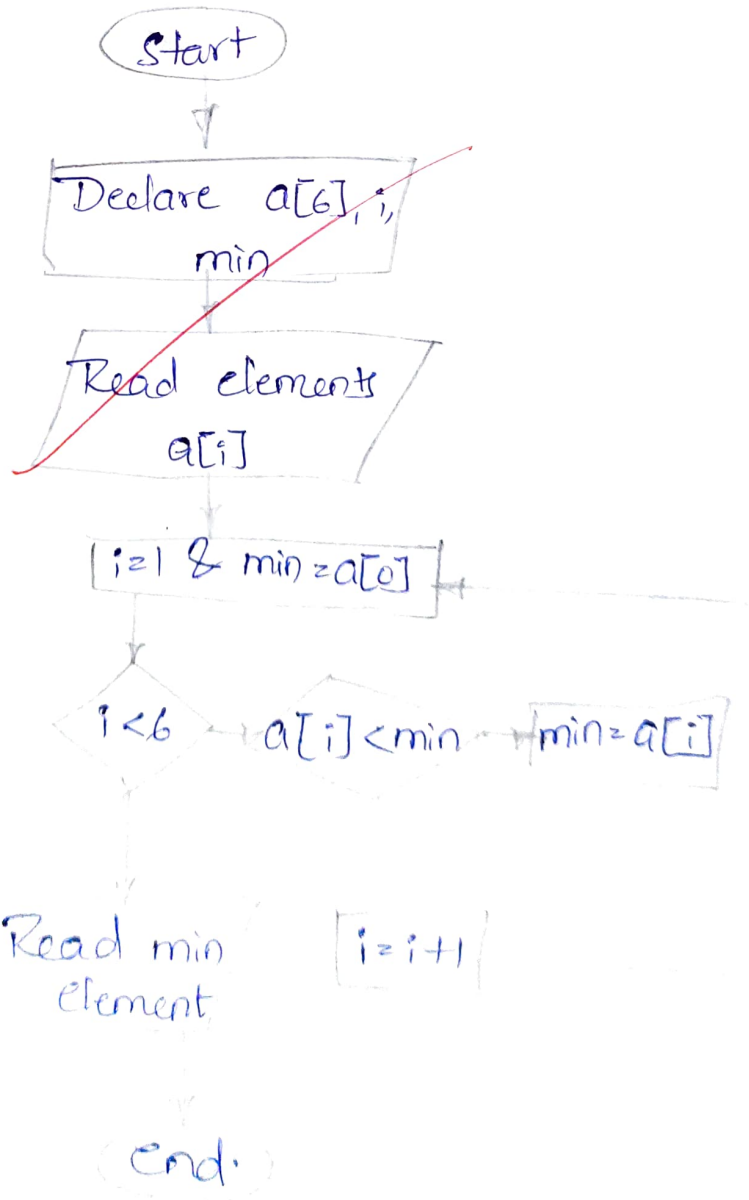
Output

Enter the values of array: 1
2
3
5
7
9

Entered values are: 1
2
3
5
7
9

The minimum number is: 1

Flow chart



Program for minimum number

```
#include <stdio.h>
#include <conio.h>
void main()
{
int a[6], i, min=0
clrscr();
Printf("Enter the values of array: ");
for (i=0; i<6; i++)
 {
 Scanf ("%d", &a[i]);
 }
Printf ("Entered values are: ");
for (i=0; i<6; i++)
 {
 Printf ("%d \n", a[i]);
 }
min = a[0];
for (i=1; i<6; i++)
 {
 if (a[i] <min)
 {
 min = a[i];
 }
Printf ("The minimum number is: %d \n", min);
getch();
}
```

Output:

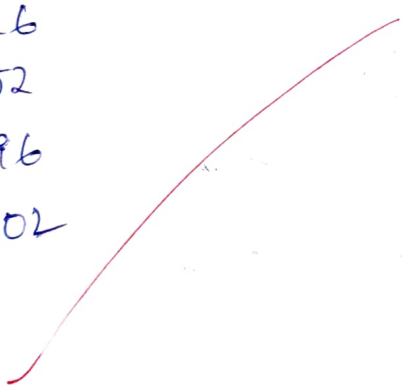
Enter the value: 6

Enter the numbers: 3

11
26
52
96
102

The arranging ordered numbers of given array is

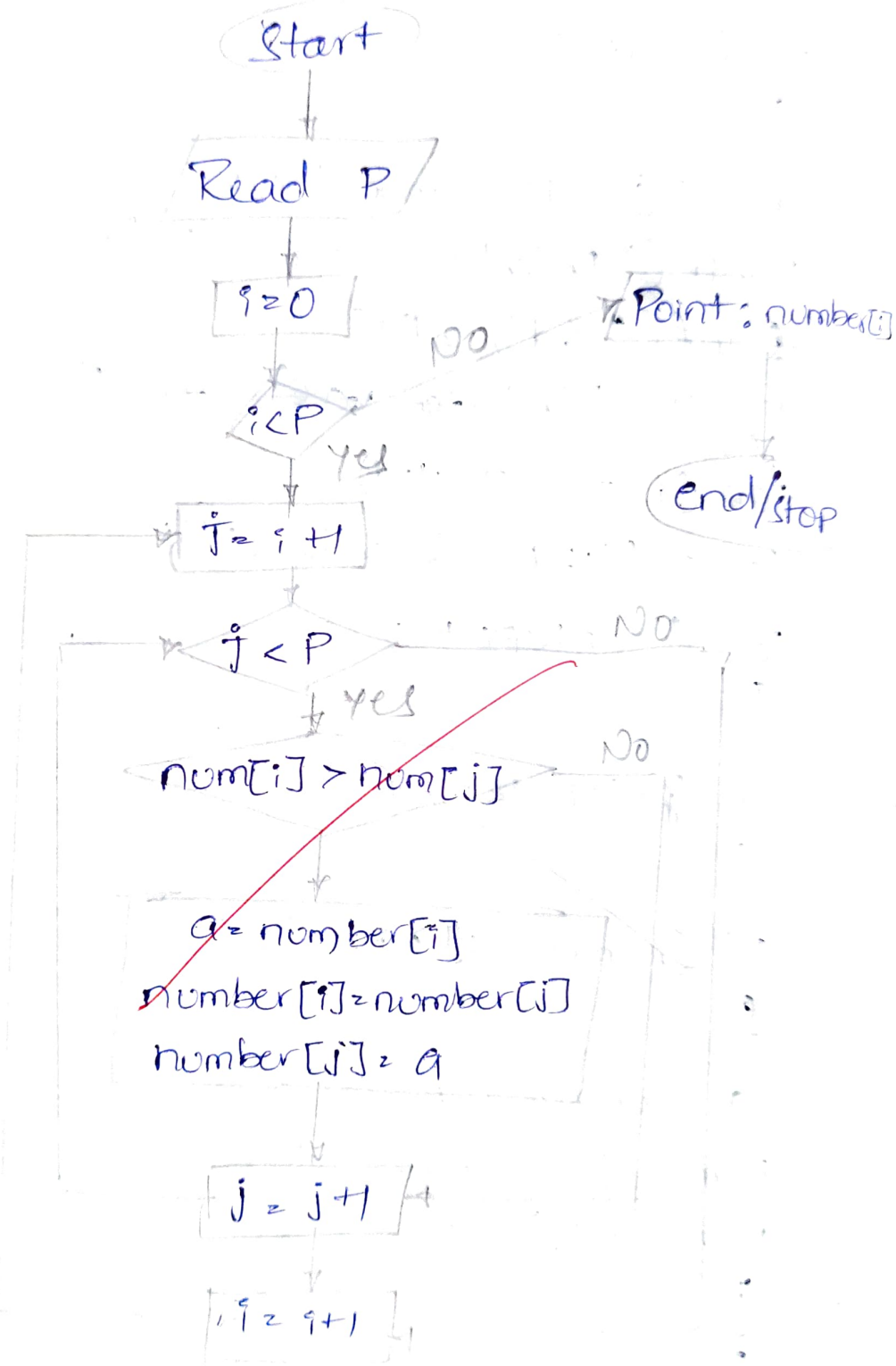
3
11
26
52
96
102



Sort the program in ascending order

```
#include <stdio.h>
void main()
{
int i,j,a,P,number[30];
Printf("Enter the values:\n");
Scanf("%d", &P)
Printf("Entered values are the numbers \n");
for(i=0; i<P; ++i)
Scanf("%d", &number[i]);
for(i=0; i<P; ++i)
 {
for(j=i+1; j<P; ++j)
 {
if(number[i]>number[j])
 {
 a=numbers[i];
number[i]= number[j];
number[j]=a;
 }
 }
getche);
 }
Printf("The ascending ordered numbers
of given array is");
```

Flow chart


Start
Read P
i=0
i<P
No
Yes
Print: number[i]
End/Stop
j= i+1
j<P
No
Yes
num[i] > num[j]
No
q= number[i]
number[i]=number[j]
number[j]= q
j = j+1
i = i+1

```
for (i=0; i<p; ++i)
printf("%.d\n", number[i]);
}
```

Output

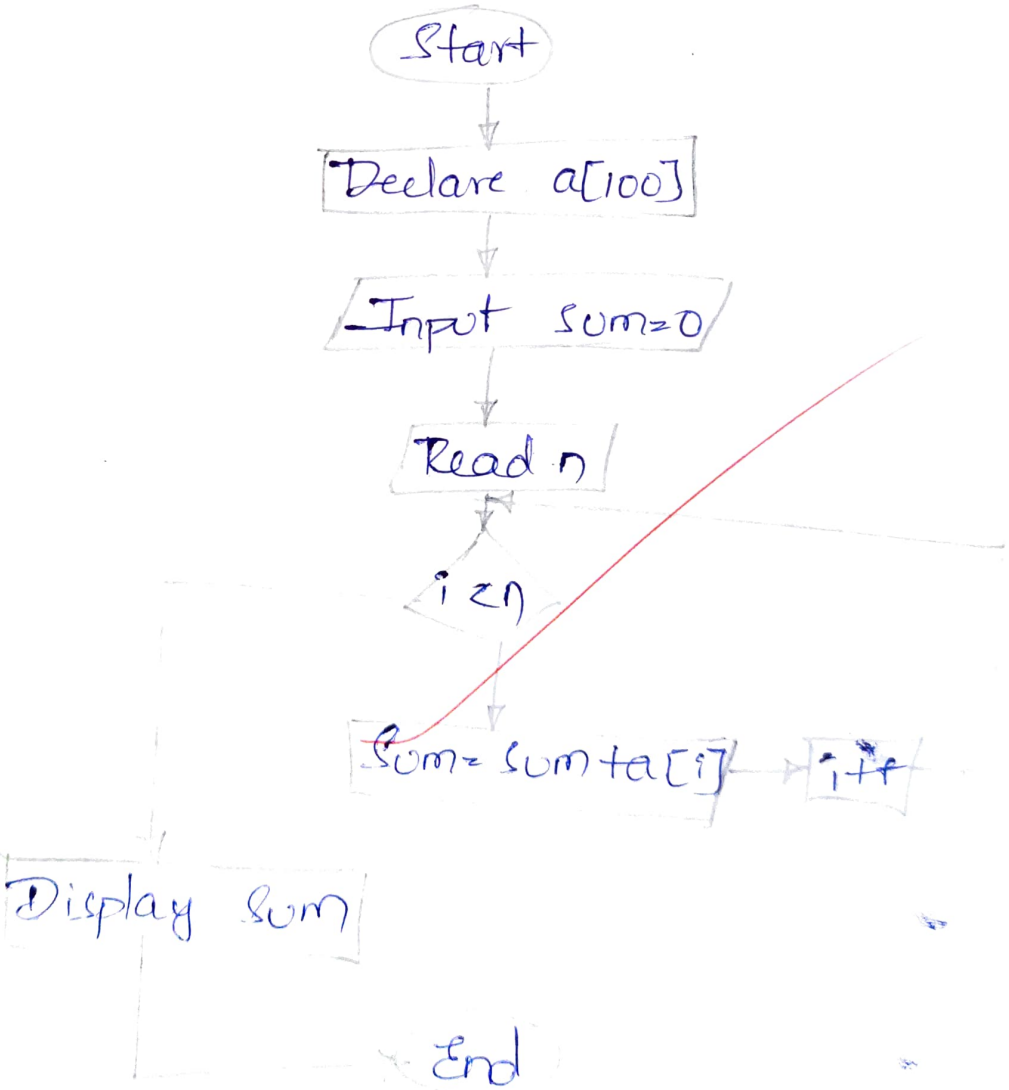
Enter size of array: 5

Enter elements in array: 9

12
36
52
14

Sum of an array is: 123

Flow chart



Sumation of elements in an array

```
#include <stdio.h>
#include <conio.h>
int main()
{
int a[100], i, n, sum=0;
Printf("Enter size of array: ");
Scanf("%d", &n);
Printf("Enter elements in array:");
for(i=0; i<n; i++)
 {
 Scanf("%d", &a[i]);
 }
for(i=0; i<n; i++){
 sum = sum + a[i];
 Printf("sum of array is: %d", sum);
 return 0;
 }
```

Output

Enter size of array : 5

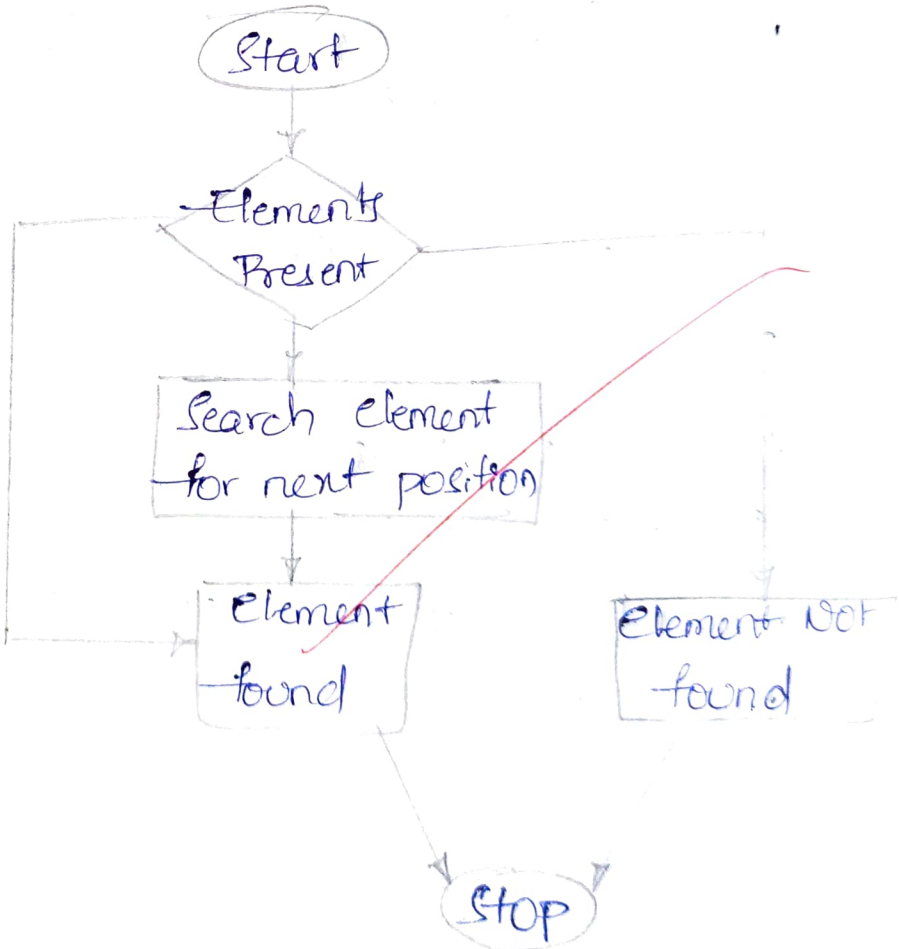
Enter elements in array : 4

6
2
1
3

Enter the key: 2

Element found.

Flow chart



Search an Element

```
#include <stdio.h>
#include <conio.h>
int main()
{
int a[100], i, n, key;
Printf("Enter size of the array:");
Scanf("%d", &n);
Printf("Enter elements in array:");
for(i=0; i<n; i++)
Scanf("%d", &a[i]);
Printf("Enter the key:");
Scanf("%d", &key);
for(i=0; i<n; i++){
if(a[i]==key)
{
Printf("Element found");
return 0;
}
}
Printf("element not found");
getch();
}
```

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