```c
#include<stdio.h>
int max, min;
int a[100];
void maxmin(int i, int j)
{
  int max1, min1, mid;
  if(i==j)
  {
   max = min = a[i];
  }
  else if(i == j-1)

   {
    if(a[i] <a[j])
    {
     max = a[j];
     min = a[i];
    }
    else
    {
     max = a[i];
     min = a[j];
    }
   }
   else
   {
    mid = (i+j)/2;
    maxmin(i, mid);
```

```c
25     }
26     else
27     {
28       mid = (i+j)/2;
29       maxmin(i, mid);
30       max1 = max; min1 = min;
31       maxmin(mid+1, j);
32       if(max <max1)
33         max = max1;
34       if(min > min1)
35         min = min1;
36     }
37   }
38
39   int main ()
40   {
41     int i, num;
42     printf ("\nEnter the total number of numbers : ");
43     scanf ("%d",&num);
44     printf ("Enter the numbers : \n");
45     for (i=1;i<=num;i++)
46       scanf ("%d",&a[i]);
47
48     max = a[0];
49     min = a[0];
50     maxmin(1, num);
51     printf ("Minimum element in an array : %d\n", min);
52     printf ("Maximum element in an array : %d\n", max);
```

```c
25        else
26        {
27          mid = (i+j)/2;
28          maxmin(i, mid);
29          max1 = max; min1 = min;
30          maxmin(mid+1, j);
31          if(max <max1)
32            max = max1;
33          if(min > min1)
34            min = min1;
35        }
36      }
37
38    int main ()
39    {
40      int i, num;
41      printf ("\nEnter the total number of numbers : ");
42      scanf ("%d",&num);
43      printf ("Enter the numbers : \n");
44      for (i=1;i<=num;i++)
45        scanf ("%d",&a[i]);
46
47      max = a[0];
48      min = a[0];
49      maxmin(1, num);
50      printf ("Minimum element in an array : %d\n", min);
51      printf ("Maximum element in an array : %d\n", max);
52      return 0;
53    }
```

```
Enter the total number of numbers : 5
Enter the numbers :
67
87
95
34
56
Minimum element in an array : 34
Maximum element in an array : 95


---------------------------------
Process exited after 11.73 seconds with return value 0
Press any key to continue . . .
```