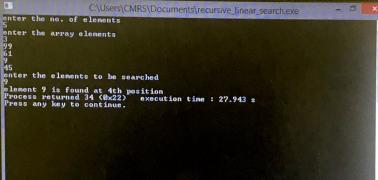
```
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help
toh.c X fib.c X gcd.c X recursive_linear_search.c X recursive_binary_search.c X *bubble_sort.c X selection_sort.c X r.c X
            #include<stdio.h>
            #include<stdlib.h>
            int linear (int a[], int, int);
            void main()
      4
     5
     6
                     int n, i, a[10], key, pos = 0;
     7
                     printf("enter the no. of elements\n");
                     scanf ("%d", &n);
     8
     9
                     printf("enter the array elements\n");
                     for (i=0; i<n; i++)
    11
    12
                              scanf("%d", &a[i]);
    13
    14
                     printf("enter the elements to be searched\n");
    15
                     scanf ("%d", &key);
                     pos = linear(a, n, key);
    16
    17
                     if (pos != 0)
    18
                     {printf("element %d is found at %dth position", key, pos);
    19
    20
                     else
    21
                     { printf("element not found\n");
    22
    23
            int linear(int a[], int n, int key)
    24
    25
                     if(n>=0)
    26
    27
                              if(a[n-1] == key)
    28
    29
                              {return n;
    31
                              else
    32
                                       return linear (a, n-1, key);
    34
    36
```



```
File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+
                                                                    Plugins DoxyBlocks Settings Help
toh.c X fib.c X gcd.c X recursive linear search.c X *recursive binary search.c X *bubble sort.c X selection sort.c X
             #include<stdio.h>
      1
      2
             #include<conio.h>
            void main()
      3
      4
          -{ int a[10], n, i, j, temp;
               int beg, end, mid, target;
      5
      6
               printf("enter the total numbers:"):
      7
               scanf ("%d", &n);
               printf("enter the array elements:");
      8
                for (i=0; i<n; i++) scanf ("%d", &a[i]);
      9
     10
                for (i=0; i<n-1; i++)
                { for(j=0;j<n-i-1;j++)
     11
     12
     13
     14
                      if(a[j+1]<a[j])
     15
     16
                          temp=a[j];
     17
                         a[j]=a[j+1];
     18
                  a[j+1]=temp;
     19
     20
               printf ("the sorted numbers are:");
               for (i=0; i<n; i++)
     21
     22
               printf("%4d",a[i]);
     23
               beg=a[0];
     24
                end=a[9];
               mid=(beg+end)/2;
     25
               printf("\nenter the number to be searched:");
     26
               scanf ("%d", &target);
     27
    28
               while (beg<=end && a[mid]!=target)
    29
                   if(target<a[mid]) end=mid-1;else beg=mid+1;
                   mid=(beg+end)/2;}if(a[mid]==target)
                   { printf("\nthe number is found at position %2d", mid);
     32
     33
                   else
     34
    35
                   (printf("\nthe number is not found:");
    36
```

execution time : 13.690 s

the number is not found: Process returned 25 (0x19)

Press any key to continue.