BinarySe...

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Explorer

Debugger

Plots

```c
#include<stdio.h>
void main(){
    int a[20], i, j, n, key, flag = 0, low, high, mid, temp;
    printf("Enter value of n : ");
    scanf("%d", &n);

    // Write the code to read an array of elements
    for(int i =0 ; i < n ; i++)
    {
        printf("Enter element for a[%d] : ", i);
        scanf("%d", &a[i]);
    }

    printf("Enter key element : ");
    scanf("%d", &key);


    for(int i = 0 ; i< n ; i++)
    {
        for(int j = 0 ; j< n-1; j++)
        {
            if(a[j] > a[j+1])
            {
            ....temp = a[j+1];
            ....a[j+1] = a[j];
            ....a[j] = temp;
            }
        }
    }

    // Write the code to sort the elements using any sorting
technique

    printf("After sorting the elements in the array are\n");
    // Write the code to display the elements

    for(int i =0 ; i<n ; i++)
    {
        printf("Value of a[%d] = %d\n" , i , a[i] );
    }

    low = 0; // Complete the statement
    high = n-1 ; // Complete the statement
```

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```
45
46      //·Write·the·code·to·search·an·element·using··binary·search·
47  process
48
49
50      while(low<=·high)
51      {
52          mid·=(low+high)/2;
53          if(a[mid]·==·key)
54          {
55              flag·=1;
56              break;
57          }
58
59          else·if(key>a[mid])
60          {
61              low·=·mid+1;
62          }
63          else
64          {
65              high·=·mid-1;
66          }
67      }
68
69
70      if·(flag·==1··)·{·//·Write·the·condition·part
71          printf("The·key·element·%d·is·found·at·the·position·%d\n",
72  ·key·,·mid);·//·Complete·the·statement
73      }·else·{
74          printf("The·Key·element·%d·is·not·found·in·the·
75  array\n",key);·//·Complete·the·statement
76      }
    }
```

Terminal Test cases