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//Created By Ritwik Chandra Pandey on 8th Nov 2021
//Binary Search
#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);
  for(i=0;i< n;i++){}
       printf("Enter element for a[%d]: ",i);
       scanf("%d",&a[i]);
       printf("Enter key element : ");
       scanf("%d", &key);
       for(i=0;i< n-1;i++){}
               for(j=0;j< n-i-1;j++){}
                       if(a[i]>a[i+1])
                       temp=a[i];
                       a[j] = a[j+1];
                       a[j+1] = temp;
       printf("After sorting the elements in the array are\n");
       for(i=0;i< n;i++){}
               printf("Value of a[%d] = %d\n",i,a[i]);
       low = 0;
       high = n-1;
       while(low<=high){
               mid = (low+high)/2;
               if(key==a[mid]){
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flag=1;
    break;
}else if(key>a[mid]){
    low = mid+1;
}else{
    high = mid-1;
}
if (flag==1) {
    printf("The key element %d is found at the position %d\n",key,mid);
} else {
    printf("The Key element %d is not found in the array\n",key);
}
```