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//Linear Search using Recursion

/*
 * Approach : The idea is to compare x with the last element in arr[].
 * If an element is found at the last position, return it.
 * Else recur elmntSrch() for remaining array and element x.
 */

#include <stdio.h>

// Recursive function to search x in arr[]
int elmntSrch(int arr[], int size, int x) {
int rec;

size--;

if (size >= 0) {
if (arr[size] == x)
return size;
else
rec = elmntSrch(arr, size, x);
}
else
return -1;

return rec;
}

void read(int a[],int n){
        printf("Enter %d elements : ",n);
        for(int i=0;i<n;i++)
        scanf("%d",&a[i]);
}

int main(void) {
int arr[20],size,key,indx;
```

```
    printf("Enter size of the array");
    scanf("%d",&size);
    read(arr,size);
    printf("Enter key element: ");
     scanf("%d",&key);
   indx = elmntSrch(arr, size, key);

   if (indx != -1) printf("Element %d is present at index %d", key, indx);
   else printf("Element %d is not present", key);
   return 0;
}
```