RECURSIVE BINARY SEARCH

#include<stdio.h>

int recursive(int arr[], int low, int high, int element){

int mid;

if(high>=low){

mid=(low+high)/2;

if(element==arr[mid])

return mid;

if(arr[mid]>element)

return recursive(arr, low, mid-1, element);

return recursive(arr, mid+1, high, element);

}

return -1;

}

int main(){

int arr[50],n,i,element;

printf("eneter the size");

scanf("%d", &n);

printf("enter the elements");

for(i=0;i<n;i++){

scanf("%d", &arr[i]);

}

printf("enter the element to be searched");

scanf("%d", &element);

int index=recursive(arr, 0, n-1, element);

if(index==-1){

printf("element not found");

}

else{

printf("element found at the position %d", index);

}

return 0;

}