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ROLL NO: S-56

SUBJECT: AOA

EXPERIMENT NO: 4

To implement Binary Search for 'n' number and perform analysis using DAC technique

#include <stdlib.h>

#include <conio.h>

#include <stdio.h>

int main(){

int key, low, high, mid, n, i, A[100];

clrscr();

printf("Enter the size of array ;");

scanf("%d",&n);

printf("\nEnter the array elements : \n");

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

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

}

printf("\nEnter the key : ");

scanf("%d",&key);

low=1;

high=n;

while(low<=high){

mid=(low+high)/2;

if(A[mid]==key){

printf("\nKey found at: %d ",mid);

break;

}

else if(A[mid]<key){

low=mid+1;

}

else{

high=mid-1;

}

}

return 0;

}

OUTPUT:

