**BINARY SEARCH**

#include<stdio.h>

#include<conio.h>

void main()

{

int c, first, last, middle, n, search, array[50];

clrscr();

printf("Enter number of elements\n");

scanf("%d",&n);

printf("Enter %d integers\n", n);

for (c = 0; c < n; c++)

scanf("%d",&array[c]);

printf("Enter value to find\n");

scanf("%d", &search);

first = 0;

last = n - 1;

middle = (first+last)/2;

while (first <= last)

{

if (array[middle] < search)

first = middle + 1;

else if (array[middle] == search)

{

printf("%d found at location %d.\n", search, middle+1);

break;

}

else

last = middle - 1;

middle = (first + last)/2;

}

if (first > last)

printf("Not found! %d isn't present in the list.\n", search);

getch();

}