9) Binary search method:

#include<stdio.h>

int main()

{

int a[20],i,x,n;

printf("How many elements?");

scanf("%d",&n);

printf("Enter array elements:");

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

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

printf("nEnter element to search:");

scanf("%d",&x);

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

if(a[i]==x)

break;

if(i<n)

printf("Element found at index %d",i);

else

printf("Element not found");

return 0;

}

Output:

