

```

/*
name : Durvesh D. Dhake
section: A
roll no: A-48
batch: A-2
*/

// 7. A Program for Binary search
#include<stdio.h>
void main()
{
    int n,low,high,i,f=0,a[20],mid,search;
    printf("\n enter the number of element");
    scanf("%d",&n);

    printf("\n enter the number in ascending order:");

    for(i=0;i<n;i++)
        scanf("%d",&a[i]);

    printf("\n enter the search element");

    scanf("%d",&search);

    low=0;
    high=n;

    while(low<=high)
    {
        mid=(low+high)/2;

        if(search<a[mid])

            high=mid-1;
        else if(search>a[mid])
            low=mid+1;

        else

        {
            f=1;

            printf("\nposition is %d",mid);

            break;
        }
    }

    if(f==0)

        printf("\nvalue is not present");
}
/*

```



output

enter the number of element 3

enter the number in ascending order:1 2 3

enter the search element2

position is 1

*/

