```c
#include<stdio.h>
#define COMPARE(x,y) (((x)<(y))?-1:((x)==(y))?0:1)
int binarysearch (int arr[],int l,int h,int key)
{
    if(l<=h){
        int mid=(l+h)/2;
        switch(COMPARE(arr[mid],key)){
            case -1:return binarysearch (arr,mid+1,h,key);
            case 0:return mid;
            case 1:return binarysearch (arr,l,mid-1,key);
        }
    }
    return -1;
}
int main(){
    int arr[]={11,13,18,19,20};
    int key=20;

    int n=sizeof (arr)/ sizeof (arr[0]);
    printf("Value of n= %d",n);
    int index = binarysearch (arr,0,n-1,key);
    if (index ==-1){
        printf("\n Element is not present in array");
    }
    else{
        printf("\n Element is present at index %d",index);
    }
    return 0;
}
```