```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)
{
    while(l<=h){
        int mid=(l+h)/2;
        switch(COMPARE(arr[mid],key)){
            case -1:l=mid+1;
                    break;
            case 0:return mid;
                    break;
            case 1:h=mid-1;
                    break;
        }
    }
    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;
}
```