BinarySe...

Submit

```c
#include<stdio.h>
int main() {
    int a[20], i, j, n, key, flag = 0, low, high, mid, temp;
    printf("Enter value of n : ");
    scanf("%d", &n);
    for (int i =0 ; i<n ; i++ ) { //Complete the code in for
        printf("Enter element for a[%d] : ", i);
        scanf("%d", &a[i]); //Complete the statement
    }
    printf("Enter key element : ");
    scanf("%d", &key);
    //Bubble sort process
    for (int i =0 ; i<=n ; i++ ) { //Complete the code in for
        for ( int j =0 ; j<n-1; j++) { //Complete the code in for
            if ( a[j] > a[j+1]) { //Write the condition part
                temp = a[j]; //Complete the statement
                a[j] = a[j+1]; //Complete the statement
                a[j+1] = temp ; //Complete the statement
            }
        }
    }
    printf("After sorting the elements in the array are\n");
    for (int i =0 ; i<n ; i++ ) { //Complete the code in for
        printf("Value of a[%d] = %d\n", i, a[i]);
    }
    low =0 ; //Complete the statement
    high =n -1; //Complete the statement
    while ( low<=high) { //Complete the condition part in while
        mid = (low + high)/2 ; //Complete the statement
        if ( a[mid] == key) { //Write the condition part
            flag = 1; //Complete the statement
            break;
        } else if ( a[mid]<key) { //Write the condition part
            low = mid +1; //Complete the statement
        } else if ( a[mid]>key) { //Write the condition part
            high = mid-1; //Complete the statement
        }
    }
    if ( flag ==1) { //Write the condition part
        printf("The key element %d is found at the position %d\n", key, mid);
    } else {
        printf("The Key element %d is not found in the array\n", key);
    }
    return 0;
}
```

Terminal Test cases

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