```
[] 🕒 🖒 🖒 Share Run
        main.c
                                                                                               Output
                                                                                                                                                                          Clear
4
       1 #include <stdio.h>
                                                                                             Enter number of elements: 5
Q
         2 - int main() {
                                                                                             Enter elements in sorted order:
                int a[20], i, n, k, low, high, mid, flag = 0;
                                                                                              10 20 30 40 50
                 printf("Enter number of elements: ");
                                                                                             Enter search element: 20
H
                scanf("%d", &n);
                                                                                             20 found at position 2
                printf("Enter elements in sorted order:\n");
for (i = 0; i < n; i++) {
    scanf("%d", &a[i]);</pre>
B
                                                                                             === Code Execution Successful ===
         8
$
         9
                printf("Enter search element: ");
scanf("%d", &k);
        10
0
        11
12
                low = 0:
                high = n - 1;
0
        13
                while (low <= high) {
    mid = (low + high) / 2;
    if (a[mid] == k) {</pre>
        14 -
        15
0
        16 -
                      flag = 1;
break;
        17
        18
                     } else if (k < a[mid]) {</pre>
        19 -
        20
                        high = mid - 1;
        21 -
                     } else {
        22
                        low = mid + 1;
        23
        24
        25 -
                if (flag) {
        26
                     printf("%d found at position %d\n", k, mid + 1);
```

```
[] & oo Share Run
                                                                                    Output
                                                                                                                                                        Clear
*
        main.c
                                                                                    Enter number of elements: 5
                for (i = 0; i < n; i++) {
Q
                                                                                    Enter elements in sorted order:
        8
                scanf("%d", &a[i]);
                                                                                    10 20 30 40 50
                                                                                    Enter search element: 20
10
               printf("Enter search element: ");
        11
               scanf("%d", &k);
                                                                                    20 found at position 2
        12
               low = 0;
8
               low = 0;
high = n - 1;
while (low <= high) {
    mid = (low + high) / 2;
    if (a[mid] == k) {
        13
                                                                                    === Code Execution Successful ===
        14 -
鱼
        15
       16 -
0
       17
                   flag = 1;
break;
        18
0
                   } else if (k < a[mid]) {</pre>
       19 -
       20
                      high = mid - 1;
       21 -
                  low = mid + 1;
                   } else {
0
       22
       23
 JS
       24
               if (flag) {
       25 -
TS
       26
                printf("%d found at position %d\n", k, mid + 1);
               printf("Not present\n");
}
       27 -
       28
       29
      30
               return 0;
       31 }
      32
3
```