```
x Terminal

Enter number of elements in array:5
The List is,
25
39
65
94
58
Enter a number to be searched:65
65 is present at location 3.
```

```
Terminal
  ×
Enter number of elements in array:10
The List is,
88
97
6
78
5
25
42
39
43
87
Enter a number to be searched:1
1 not Found in the List.
```

```
BinarySearch.c A
                                                                                                                                     ₹
  #include<stdio.h>
  void main()
     int c, first, last, middle, n, search, a;
srand(time(0));
     printf("Enter number of elements:");
scanf("%d", &n);
     int array[n];
    for(c=0;c<n;c++)
     array[c]=rand()%100;
printf("The List is,\n");
     for(c=0;c<n;c++)
     printf("%d\n",array[c]);
for (int i = 0; i < n; ++i)</pre>
            {
                  for (int j = i + 1; j < n; ++j)
                       if (array[i] > array[j])
                           a = array[i];
array[i] = array[j];
                           array[j] = a;
                  }
     }
printf("The sorted list is,\n");
for(c=0;c<n;c++)</pre>
     printf("%d\n",array[c]);
printf("\nEnter element to be searched:");
     scanf("%d", &search);
     first = 0;
     last = n-1;
     middle = (first+last)/2;
     while(first<=last){</pre>
       if(array[middlej<search)
          first = middle+1;
        else if(array[middle] == search) {
          printf("%d found at location %d.\n", search, middle+1);
       }
41
42
43
44
45
46
47 }
          last = middle-1;
       middle = (first + last)/2;
     if(first>last)
       printf("Not found!\n%d isn't present in the list.\n", search);
```

```
Enter number of elements:5
The List is,
8
41
59
78
67
The sorted list is,
8
41
59
67
78
```

```
Terminal
  X
Enter number of elements:6
The List is,
35
78
12
19
29
62
The sorted list is,
12
19
29
35
62
78
Enter element to be searched:90
Not found!
90 isn't present in the list.
```