

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int arr[100], n, key, i, found = 0;
5
6     printf("Enter number of elements: ");
7     scanf("%d", &n);
8
9     printf("Enter %d elements:\n", n);
10    for (i = 0; i < n; i++) {
11        scanf("%d", &arr[i]);
12    }
13
14    printf("Enter element to search: ");
15    scanf("%d", &key);
16
17    for (i = 0; i < n; i++) {
18        if (arr[i] == key) {
19            found = 1;
20            break;
21        }
22    }
23
24    if (found)
25        printf("Element %d found at position %d\n", key, i + 1);
26    else
27        printf("Element %d not found in the array\n", key);
28
29    return 0;
30 }
31
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | [] X

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter number of elements: 5
Enter 5 elements:
10 20 30 40 50
Enter element to search: 30
Element 30 found at position 3
○ rajatsingh@Rajats-MacBook-Air ~ %

Welcome C C PROGRAMING PROJECT .c #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int arr[100], n, i, temp;
5
6     printf("Enter number of elements: ");
7     scanf("%d", &n);
8
9     printf("Enter %d elements:\n", n);
10    for (i = 0; i < n; i++) {
11        scanf("%d", &arr[i]);
12    }
13
14    for (i = 0; i < n / 2; i++) {
15        temp = arr[i];
16        arr[i] = arr[n - i - 1];
17        arr[n - i - 1] = temp;
18    }
19
20    printf("Reversed array:\n");
21    for (i = 0; i < n; i++) {
22        printf("%d ", arr[i]);
23    }
24
25    return 0;
26 }
27
28
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Code + -

```
cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter number of elements: 5
Enter 5 elements:
10 20 30 40 50
Reversed array:
50 40 30 20 10
○ rajatsingh@Rajats-MacBook-Air ~ %
```


WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1  #include <stdio.h>
2
3  int main() {
4      int num, digit, freq[10] = {0}, max = 0, ans = 0;
5
6      printf("Enter an integer: ");
7      scanf("%d", &num);
8
9      if (num < 0) num = -num;
10
11     while (num > 0) {
12         digit = num % 10;
13         freq[digit]++;
14         num /= 10;
15     }
16
17     for (int i = 0; i < 10; i++) {
18         if (freq[i] > max) {
19             max = freq[i];
20             ans = i;
21         }
22     }
23
24     printf("Digit occurring most times: %d\n", ans);
25
26     return 0;
27 }
28
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | [] x

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter an integer: 558243355
Digit occurring most times: 5
rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
3 int main() {
12 }
13
14 printf("Enter element to search: ");
15 scanf("%d", &key);
16
17 low = 0;
18 high = n - 1;
19
20 while (low <= high) {
21     mid = (low + high) / 2;
22
23     if (arr[mid] == key) {
24         found = 1;
25         break;
26     }
27     else if (arr[mid] < key)
28         low = mid + 1;
29     else
30         high = mid - 1;
31 }
32
33 if (found)
34     printf("Element %d found at position %d\n", key, mid + 1);
35 else
36     printf("Element %d not found\n", key);
37
38 return 0;
39 }
40
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | [] X

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter number of elements: 6
Enter 6 sorted elements:
10 20 30 40 50 60
Enter element to search: 40
Element 40 found at position 4
○ rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .c#include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int arr[100], n, key, i;
5
6     printf("Enter number of elements: ");
7     scanf("%d", &n);
8
9     printf("Enter %d sorted elements:\n", n);
10    for (i = 0; i < n; i++) {
11        scanf("%d", &arr[i]);
12    }
13
14    printf("Enter element to insert: ");
15    scanf("%d", &key);
16
17    i = n - 1;
18    while (i >= 0 && arr[i] > key) {
19        arr[i + 1] = arr[i];
20        i--;
21    }
22
23    arr[i + 1] = key;
24    n++;
25
26    printf("Array after insertion:\n");
27    for (i = 0; i < n; i++) {
28        printf("%d ", arr[i]);
29    }
30
31    return 0;
32 }
33
34
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + - [] [] ... | [] x

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter number of elements: 5
Enter 5 sorted elements:
10 20 30 50 60
Enter element to insert: 40
Array after insertion:
10 20 30 40 50 60
○ rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .cC #include <stdio.h> Untitled-1

```
1 #include <stdio.h>
2
3 int main() {
4     int arr[100], n, pos, i;
5
6     printf("Enter number of elements: ");
7     scanf("%d", &n);
8
9     printf("Enter %d elements:\n", n);
10    for (i = 0; i < n; i++) {
11        scanf("%d", &arr[i]);
12    }
13
14    printf("Enter position to delete (1 to %d): ", n);
15    scanf("%d", &pos);
16
17    for (i = pos - 1; i < n - 1; i++) {
18        arr[i] = arr[i + 1];
19    }
20
21    n--;
22
23    printf("Array after deletion:\n");
24    for (i = 0; i < n; i++) {
25        printf("%d ", arr[i]);
26    }
27
28    return 0;
29 }
30
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + -

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter number of elements: 5
Enter 5 elements:
10 20 30 40 50
Enter position to delete (1 to 5): 2
Array after deletion:
10 30 40 50
○ rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .c#include <stdio.h> Untitled-1

```
1  #include <stdio.h>
2
3  int main() {
4      int arr[100], n, i;
5      int max1, max2;
6
7      printf("Enter number of elements: ");
8      scanf("%d", &n);
9
10     printf("Enter %d elements:\n", n);
11     for (i = 0; i < n; i++) {
12         scanf("%d", &arr[i]);
13     }
14
15     if (arr[0] > arr[1]) {
16         max1 = arr[0];
17         max2 = arr[1];
18     } else {
19         max1 = arr[1];
20         max2 = arr[0];
21     }
22
23     for (i = 2; i < n; i++) {
24         if (arr[i] > max1) {
25             max2 = max1;
26             max1 = arr[i];
27         } else if (arr[i] > max2 && arr[i] != max1) {
28             max2 = arr[i];
29         }
30     }
31
32     printf("Second largest element: %d\n", max2);
33
34     return 0;
35 }
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + -

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile

● rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile

Enter number of elements: 6

Enter 6 elements:

10 50 30 70 20 60

Second largest element: 60

○ rajatsingh@Rajats-MacBook-Air ~ %

WelcomeC C PROGRAMING PROJECT .c#include <stdio.h> Untitled-1

```
1  #include <stdio.h>
2
3  int main() {
4      int arr[100], n, k, i, temp;
5
6      printf("Enter number of elements: ");
7      scanf("%d", &n);
8
9      printf("Enter %d elements:\n", n);
10     for (i = 0; i < n; i++) {
11         scanf("%d", &arr[i]);
12     }
13
14     printf("Enter k: ");
15     scanf("%d", &k);
16
17     k = k % n;
18
19     while (k--) {
20         temp = arr[n - 1];
21         for (i = n - 1; i > 0; i--) {
22             arr[i] = arr[i - 1];
23         }
24         arr[0] = temp;
25     }
26
27     printf("Array after right rotation:\n");
28     for (i = 0; i < n; i++) {
29         printf("%d ", arr[i]);
30     }
31
32     return 0;
33 }
34
```

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

Code + -

cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
rajatsingh@Rajats-MacBook-Air ~ % cd "/Users/rajatsingh/" && gcc tempCodeRunnerFile.c -o tempCodeRunnerFile && "/Users/rajatsingh/"tempCodeRunnerFile
Enter number of elements: 5
Enter 5 elements:
10 20 30 40 50
Enter k: 2
Array after right rotation:
40 50 10 20 30
rajatsingh@Rajats-MacBook-Air ~ %