39. wap_to_display_array_elements_at_even_index

```
#include <stdio.h>

int main() {
   int arr[100], n;
   printf("Enter number of elements: ");
   scanf("%d", &n);
   printf("Enter elements: ");
   for (int i = 0; i < n; i++) {
      scanf("%d", &arr[i]);
   }
   printf("Elements at even indices: ");
   for (int i = 0; i < n; i += 2) {
      printf("%d ", arr[i]);
   }
   printf("\n");
   return 0;
}
```

40. wap_to_display_array_elements_at_odd_index

```
#include <stdio.h>

int main() {
   int arr[100], n;
   printf("Enter number of elements: ");
   scanf("%d", &n);
   printf("Enter elements: ");
```

```
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    printf("Elements at odd indices: ");
    for (int i = 1; i < n; i += 2) {
        printf("%d ", arr[i]);
    }
    printf("\n");
    return 0;
}
```

41. wap_to_implement_linear_search

```
#include <stdio.h>

int main() {
    int arr[100], n, target;
    printf("Enter number of elements: ");
    scanf("%d", &n);
    printf("Enter elements: ");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    printf("Enter element to search: ");
    scanf("%d", &target);

    int found = 0;
    for (int i = 0; i < n; i++) {
        if (arr[i] == target) {
```

```
            printf("Element found at index %d\n", i);
            found = 1;
            break;
        }
    }
    if (!found) {
        printf("Element not found\n");
    }
    return 0;
}
```

42.
wap_to_search_an_element_and_display_the_count_of_no_of_occurrences_of_the_element_if_found

```
#include <stdio.h>

int main() {
    int arr[100], n, target, count = 0;
    printf("Enter number of elements: ");
    scanf("%d", &n);
    printf("Enter elements: ");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    printf("Enter element to search: ");
    scanf("%d", &target);

    for (int i = 0; i < n; i++) {
        if (arr[i] == target) {
```

```
            count++;
        }
    }
    if (count > 0) {
        printf("Element found %d times\n", count);
    } else {
        printf("Element not found\n");
    }
    return 0;
}
```

43. wap_to_find_largest_smallest_element_in_an_array

```
#include <stdio.h>

int main() {
    int arr[100], n, largest, smallest;
    printf("Enter number of elements: ");
    scanf("%d", &n);
    printf("Enter elements: ");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }
    largest = smallest = arr[0];
    for (int i = 1; i < n; i++) {
        if (arr[i] > largest) {
            largest = arr[i];
        }
        if (arr[i] < smallest) {
```

```
            smallest = arr[i];
        }
    }
    printf("Largest: %d\nSmallest: %d\n", largest, smallest);
    return 0;
}
```

44. wap_to_find_sum_and_avg_of_array_elements

```
#include <stdio.h>

int main() {
    int arr[100], n, sum = 0;
    printf("Enter number of elements: ");
    scanf("%d", &n);
    printf("Enter elements: ");
    for (int i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
        sum += arr[i];
    }
    float avg = (float)sum / n;
    printf("Sum: %d\nAverage: %.2f\n", sum, avg);
    return 0;
}
```