```c
#include<stdio.h>
int main()
{
    int a[10],b[10],n,i,j=0;
    printf("Enter no of elements: ");
    scanf("%d",&n);
    printf("Enter elements: ");
    for(i=0;i<n;i++)
        {
            scanf(" %d",&a[i]);
        }
    for(i=n-1;i>=0;i--)
        {
            b[j]=a[i];
            j++;
        }
printf("The reversed array: ");
    for(i=0;i<n;i++)
        {
            printf("%d ",b[i]);
        }
    return 0;
}
```

```c
#include <stdio.h>

// Function prototypes
void linearSearch(int arr[], int size, int key);
void binarySearch(int arr[], int size, int key);
void sortArray(int arr[], int size);

int main() {
    int choice, n, key, i;

    printf("Enter the number of elements: ");
    scanf("%d", &n);
```

```
    int arr[n];

    printf("Enter %d elements:\n", n);
    for (i = 0; i < n; i++) {
        scanf("%d", &arr[i]);
    }

    printf("Enter the element to search: ");
    scanf("%d", &key);

    printf("\nChoose search method:\n");
    printf("1. Linear Search\n");
    printf("2. Binary Search (array must be sorted)\n");
    printf("Enter your choice (1 or 2): ");
    scanf("%d", &choice);

    switch (choice) {
        case 1:
            linearSearch(arr, n, key);
            break;
        case 2:
            sortArray(arr, n);  // Sorting the array before binary search
            binarySearch(arr, n, key);
            break;
        default:
            printf("Invalid choice! Please select 1 or 2.\n");
    }

    return 0;
}
```

```
// Function to perform Linear Search
void linearSearch(int arr[], int size, int key) {
    int i;
    for (i = 0; i < size; i++) {
        if (arr[i] == key) {
            printf("Element %d found at index %d (Position %d)\n", key, i, i + 1);
            return;
        }
    }
    printf("Element %d not found in the array.\n", key);
}

// Function to perform Binary Search (array must be sorted)
void binarySearch(int arr[], int size, int key) {
    int low = 0, high = size - 1, mid;

    while (low <= high) {
        mid = low + (high - low) / 2;

        if (arr[mid] == key) {
            printf("Element %d found at index %d (Position %d)\n", key, mid, mid + 1);
            return;
        } else if (arr[mid] < key) {
            low = mid + 1;
        } else {
            high = mid - 1;
        }
    }
    printf("Element %d not found in the array.\n", key);
}
```

```
// Function to sort the array using Bubble Sort
void sortArray(int arr[], int size) {
    int i, j, temp;
    for (i = 0; i < size - 1; i++) {
        for (j = 0; j < size - i - 1; j++) {
            if (arr[j] > arr[j + 1]) {
                temp = arr[j];
                arr[j] = arr[j + 1];
                arr[j + 1] = temp;
            }
        }
    }
    printf("Array sorted successfully for Binary Search.\n");
}
```