```
1.Bubble sort
#include <stdio.h>
Void bubbleSort(int arr[], int n) {
  For (int I = 0; I < n-1; i++) {
    For (int j = 0; j < n-i-1; j++) {
      If (arr[j] > arr[j+1]) {
        // Swap arr[j] and arr[j+1]
        Int temp = arr[j];
        Arr[j] = arr[j+1];
        Arr[j+1] = temp;
      }
    }
 }
}
Void printArray(int arr[], int size) {
  For (int I = 0; I < size; i++)
    Printf("%d", arr[i]);
  Printf("\n");
}
Int main() {
  Int n;
  // Input array size
```

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Printf("Enter the number of elements: ");
 Scanf("%d", &n);
 Int arr[n];
 // Input array elements
 Printf("Enter the elements: ");
 For (int I = 0; I < n; i++) {
   Scanf("%d", &arr[i]);
 }
  // Sorting the array
  bubbleSort(arr, n);
 // Output the sorted array
 Printf("Sorted array: ");
  printArray(arr, n);
 return 0;
Input
Enter the number of elements: 5
Enter the elements: 64 34 25 12 22
Output
Sorted array: 12 22 25 34 64
2.selection sort
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}

```
Void selectionSort(int arr[], int n) {
  For (int I = 0; I < n-1; i++) {
    Int minIndex = I;
    For (int j = i+1; j < n; j++) {
      If (arr[j] < arr[minIndex]) {</pre>
        minIndex = j;
      }
    }
    // Swap the found minimum element with the first element
    Int temp = arr[minIndex];
    Arr[minIndex] = arr[i];
    Arr[i] = temp;
 }
}
Void printArray(int arr[], int size) {
  For (int I = 0; I < size; i++)
    Printf("%d", arr[i]);
  Printf("\n");
}
Int main() {
  Int n;
```

```
// Input array size
 Printf("Enter the number of elements: ");
 Scanf("%d", &n);
 Int arr[n];
 // Input array elements
 Printf("Enter the elements: ");
 For (int I = 0; I < n; i++) {
   Scanf("%d", &arr[i]);
 }
 // Sorting the array
 selectionSort(arr, n);
 // Output the sorted array
 Printf("Sorted array: ");
 printArray(arr, n);
 return 0;
Input
Enter the number of elements: 5
Enter the elements: 64 25 12 22 11
Output
Sorted array: 11 12 22 25 64
```

}