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```
1 #include <iostream>
2 using namespace std;
4 void insertionSort(int arr[], int n) {
5
       for (int i = 1; i < n; i++) {
           int key = arr[i];
           int j = i - 1;
           while (j >= 0 && arr[j] > key) {
               arr[j + 1] = arr[j];
               j = j - 1;
           arr[j + 1] = key;
18 }
21 void printArray(int arr[], int n) {
       for (int i = 0; i < n; i++) {
           cout << arr[i] << " ";
       cout << endl;
26 }
28 int main() {
       int arr[] = {12, 11, 13, 5, 6};
       int n = sizeof(arr) / sizeof(arr[0]);
       cout << "Unsorted array: ";</pre>
       printArray(arr, n);
       insertionSort(arr, n);
       cout << "Sorted array: ";</pre>
       printArray(arr, n);
40
       return 0;
41 }
```

## Coding C++

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RUN MENU

```
1 #include<iostream>
2 using namespace std ;
  void bubbleSort(int arr[], int n) {
      for (int i = 0; i < n - 1; i++) {
          bool swapped = false;
          for (int j = 0; j < n - i - 1; j++) {
              if (arr[j] > arr[j + 1]) {
                  swap(arr[j], arr[j + 1]);
                  swapped = true;
          if (!swapped)
24 void printArray(int arr[], int n) {
          cout << arr[i] << " ";
      cout << endl;</pre>
 int main() {
      int arr[] = {64, 34, 25, 12, 22, 11, 90};
      int n = sizeof(arr) / sizeof(arr[0]);
      printArray(arr, n);
      bubbleSort(arr, n);
      cout << "Sorted array: ";</pre>
      printArray(arr, n);
             {}
                       66 99
  Tab
                                                       ①
                                                       ①
                        &
                                            \Diamond
                                                                 \Rightarrow
   =
```

## Coding C++

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**RUN MENU** 

```
1 #include <iostream>
 2 using namespace std;
 4 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;
            if (minIndex != i) {
                 swap(arr[i], arr[minIndex]);
19 }
21
   void printArray(int arr[], int n) {
            cout << arr[i] << " ";
       cout << endl;
29 int main() {
       int arr[] = {64, 25, 12, 22, 11};
       int n = sizeof(arr) / sizeof(arr[0]);
       cout << "Unsorted array: ";</pre>
       printArray(arr, n);
       selectionSort(arr, n);
       cout << "Sorted array: ";</pre>
       printArray(arr, n);
                {}
                           66 99
   Tab
                                                               ①
                                                               ①
                            &
                                                   \Diamond
                                                                          \Rightarrow
    =
```