Ex. 9.1

Ex 9.2

```
Could sort_array(int a[], int used_size)

| Simi index_ef_nort_smallest; int temp; | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size - 1; i++) | for (int i = 0; i < used_size
```

Ex 9.3

Ex. 9.1

```
### Solution Explorer

### Enter value ##1: 1

### Enter value ##1
```

```
ex93.cpp ⇒ X
± ex93
                                                                                                           (Global Scope)
                                                                                                                                                                                               Microsoft Visual Studio Debu × + v
          #include <iostream>;
using namespace std;
                                                                                                                                                                                             Num 0
          const int SIZE = 4;
int index_of_smallest(const int a[], int start_index, int used_size);
void sort_array(int a[], int used_size);
                                                                                                                                                                                             Num 1
                                                                                                                                                                                            Num 2
                int min = a[start_index], index_of_min = start_index;
for (int i = start_index + 1; i < used_size; i++)</pre>
                                                                                                                                                                                            Num 3
                                                                                                                                                                                            66
                     if (a[i] < min)
                                                                                                                                                                                            Number 0 : 1 Difference 65
Number 1 : 2 Difference 64
Number 2 : 3 Difference 63
Number 3 : 66 Difference 0
                           min = a[i];
index_of_min = i;
                return index_of_min;
                                                                                                                                                                                             C:\Users\LOVE4\source\repos\ex93\
                                                                                                                                                                                             Press any key to close this windo
        □void sort_array(int a[], int used_size)
                int index_of_next_smallest;
int temp;
for (int i = 0; i < used_size - 1; i++)</pre>
                      // swap two elements
temp = a[i];
a[i] = a[index_of_next_smallest];
a[index_of_next_smallest] = temp;
               int a[SIZE];
for (int i = 0; i < SIZE; i++) {
    cout << "Num " << i << endl;
    cin >> a[i];
                sort_array(a, SIZE);
for (int i = 0; i < SIZE; i++) {
    cout << "Number " << i << " : "<< a[i] << " Difference " << a[SIZE-1] - a[i] << endl;</pre>
```

Ex. 9.1

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