1. Implement the **linear search** algorithm.

   Input:
   Array Size: 6
   Values: 5, 6, 8, 1, 20, 33.
   Test Case: 2
   Search Element: 33 Output: Found at index 6
   Search Element: 29 Output: Not Found

2. Implement the **binary search** algorithm.

   Input:
   Array Size: 6
   Values: 1, 5, 6, 8, 20, 33.
   Test Case: 2
   Search Element: 33 Output: Found at index 6
   Search Element: 29 Output: Not Found

3. Implement the **insertion sort** algorithm.

   Input:
   Array Size: 10
   Values: 20, 29, 22, 11, 6, 8, 2, 1, 5, 11

   Output: 1, 2, 5, 6, 8, 11, 11, 20, 22, 29

4. Implement the **selection sort** algorithm.

   Input:
   Array Size: 10
   Values: 20, 29, 22, 11, 6, 8, 2, 1, 5, 11

   Output: 1, 2, 5, 6, 8, 11, 11, 20, 22, 29

5. Implement the **bubble sort** algorithm.

   Input:
   Array Size: 10
   Values: 20, 29, 22, 11, 6, 8, 2, 1, 5, 11

   Output: 1, 2, 5, 6, 8, 11, 11, 20, 22, 29