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CSM III – Data Structures

Final Project: Part 2

Test cases for algorithms:

Algorithm 1 –

1. arr = [5, 5, 5, 5, 5], target = 5  
   Expected Output: 0
2. arr = [], target = 10  
   Expected Output: -1
3. arr = [1, 2, 3, 4, 5], target = 5  
   Expected Output: 4

Algorithm 2 –

1. arr = [1, 2, 3, 0]  
   Expected Output: [0, 1, 2, 3]
2. arr = [0, 1, 2, 3]  
   Expected Output: [0, 1, 2, 3]
3. arr = [1, 3, 8, 0, 2, 3]

Expected Output: [0, 2, 3, 1, 3, 8]

Algorithm 3 –

1. arr = ["3", "4", "\*", "2", "/"]  
   Expected Output: 6
2. arr = ["5", "1", "2", "+", "4", "\*", "+", "3", "-"]  
   Expected Output: 14

Algorithm 4 –

1. List 1 = [2, 3, 6], List 2 = [1, 2, 3]  
   Expected Output: [1, 2, 2, 3, 3, 6]
2. List 1 = [4, 6, 7, 9], List 2 = [0, 2, 5, 8]  
   Expected Output: [0, 2, 4, 5, 6, 7, 8, 9]