

# CS302 Data Structures

## Spring 2010 – Dr. George Bebis

### Homework 7 - Solutions

#### 1. Exercise 4 (page 669)

- (a) bubble sort
- (b) selection sort
- (c) insertion sort

#### 2. Exercise 7 (pages 670)

The correct answer is (c)

#### 3. Exercise 9 (page 671)

QuickSort would take the longest; InsertionSort and ShortBubble would take the shortest.

#### 4. Exercise 29 (page 674)

[0]	140
[1]	620
[2]	
[3]	
[4]	
[5]	145
[6]	66
[7]	47
[8]	87
[9]	126
[10]	90
[11]	285
[12]	467
[13]	153
[14]	393
[15]	395
[16]	566
[17]	177
[18]	735
[19]	

#### 5. Exercise 30 (page 674)

[0]	140
[1]	
[2]	467
[3]	620
[4]	
[5]	145
[6]	66
[7]	47
[8]	285
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[19]	393