Software Development: Data Structures (H16Y 35)

Preparing for Outcome 2 (Part 1), Exercise 2

Bubble sort algorithm for data stored in an array

Formative Exercise 2

Name:

Class: HND Computing: Software Development

Date:

Question 1: Sort the names given into ascending order using the bubble sort method

Question 2: Build and implement a bubble sort algorithm with C# to demonstrate the sort in Visual Studio

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **i** | 0 | 1 | 2 | 3 | 4 |
|  | **Lewis** | **Rhys** | **James** | **Dom** | **Lee** |
| 0 |  |  |  |  |  |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |

After 1st pass Number of comparisons \_\_\_\_\_\_\_\_\_\_\_ Number of swaps made \_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **i** | 0 | 1 | 2 | 3 | 4 |
|  |  |  |  |  |  |
| 0 |  |  |  |  |  |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |

After 2nd pass Number of comparisons \_\_\_\_\_\_\_\_\_\_\_ Number of swaps made \_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **i** | 0 | 1 | 2 | 3 | 4 |
|  |  |  |  |  |  |
| 0 |  |  |  |  |  |
| 1 |  |  |  |  |  |

After 3rd pass Number of comparisons \_\_\_\_\_\_\_\_\_\_\_ Number of swaps made \_\_\_\_\_\_\_\_\_\_\_

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **i** | 0 | 1 | 2 | 3 | 4 |
|  |  |  |  |  |  |
| 0 |  |  |  |  |  |

After 4th pass Number of comparisons \_\_\_\_\_\_\_\_\_\_\_ Number of swaps made \_\_\_\_\_\_\_\_\_\_\_