# Computer Science

## **Bubble Sort Algorithm Practice Questions**

### **Bubble Sort 1**

A list is made up of the numbers 5, 4, 3, 2, 1

Show the state of the array after each pass involved when sorting this list of numbers ascending using a bubble sort algorithm.

Start

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 5 | 4 | 3 | 2 | 1 |

Pass 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

Pass 2

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

Pass 3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

Pass 4

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  |  |  |  |

end

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 1 | 2 | 3 | 4 | 5 |

### **Bubble Sort 2**

A list is made up of the numbers 84, 52, 4, 6, 68, 39, 53, 1.

Show the state of the array after each pass involved when sorting this list of numbers ascending using a bubble sort algorithm.

Pass 1

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Pass 2

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Pass 3

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Pass 4

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Pass 5

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Pass 6

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |

Pass 7

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |