# **Bubble Sorting in Array**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | 0 | 1 | 2 | 3 |
| Array | **2** | **9** | 8 | 1 |

for (int i = 0; i < n-1; i++) {

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | 0 | 1 | 2 | 3 |
| 1st iteration | **2** | **9** | 8 | 1 |
| 2nd iteration | 2 | 8 | 9 | 1 |
| 3rd Iteration | 2 | 8 | 1 | 9 |

}

for (int i = 1; i < n-1; i++) {

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | 0 | 1 | 2 | 3 |
| 1st iteration | **2** | **8** | 1 | 9 |
| 2nd iteration | 2 | 1 | 8 | 9 |
| 3rd Iteration | 2 | 1 | 8 | 9 |

}

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | 0 | 1 | 2 | 3 |
| 1st iteration | **1** | **2** | 8 | 9 |
| 2nd iteration | 1 | 2 | 8 | 9 |
| 3rd Iteration | 1 | 2 | 8 | 9 |

for (int i = 2; i < n-1; i++) {

**}**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Index | 0 | 1 | 2 | 3 |
| Array | **1** | **2** | 8 | 9 |

**Sorted Array**