|  |  |  |
| --- | --- | --- |
| **Iteration** | **Inversion** | **#Inversion** |
| **0** | (34,8), (34,32), (34,21), (64,51), (64,32), (64,21), (51,32), (51,21), (32,21) | **9** |
| **1** | (34,32)(34,21)(64,51)(64,32)(64,21)(51,32)(51,21)(32,21) | **8** |
| **2** | (34,32)(34,21)(51,32)(51,21)(64,32)(64,21) | **6** |
| **3** | (34,32)(34,21)(51,32)(51,21)(32,21)(64,51) | **6** |
| **4** | (34,32)(34,21)(51,32)(51,21)(32,21) | **5** |
| **5** | (34,32)(34,21)(32,21)(51,21) | **4** |
| **6** | (34,32)(34,21)(32,21) | **3** |
| **7** | (34,21)(32,21) | **2** |
| **8** | (32,21) | **1** |
|  | Total Inversion | **44** |

**Bubble Sort:**

**Selection Sort:**

|  |  |  |
| --- | --- | --- |
| **Iteration** | **Inversion** | **#Inversion** |
| **0** | (34,8), (34,32), (34,21), (64,51), (64,32), (64,21), (51,32), (51,21), (32,21) | **9** |
| **1** | (34,32)(34,21)(64,51)(64,32)(64,21)(51,32)(51,21)(32,21) | **8** |
| **2** | (61,51)(64,32)(64,34)(51,32)(51,34) | **5** |
| **3** | (51,34))(64,34) | **2** |
| **4** | (64,51) | **1** |
|  | Total Inversion | **25** |

**Insertion Sort:**

|  |  |  |
| --- | --- | --- |
| **Iteration** | **Inversion** | **#Inversion** |
| **0** | (34,8), (34,32), (34,21), (64,51), (64,32), (64,21), (51,32), (51,21), (32,21) | **9** |
| **1** | (34,32)(34,21)(64,51)(64,32)(64,21)(51,32)(51,21)(32,21) | **8** |
| **2** | (32,21)(64,51)(64,21)(51,21) | **5** |
| **3** | (64,51) | **1** |
|  | Total Inversion | **23** |