· Selection Sort

第1轮排序——> A[min]=A[i]=A[0]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 1 | 3 | 9 | 4 | 7 |

A[min]>A[1] ——> A[min]=A[1]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 1 | 3 | 9 | 4 | 7 |

A[min]<A[2] ——> continue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 1 | 3 | 9 | 4 | 7 |

A[min]<A[3] ——> continue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 1 | 3 | 9 | 4 | 7 |

A[min]<A[4] ——> continue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 1 | 3 | 9 | 4 | 7 |

A[min]<A[5] ——> continue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 1 | 3 | 9 | 4 | 7 |

A[min] <——> A[i]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 6 | 3 | 9 | 4 | 7 |

第二轮排序 ——> A[min]=A[i]=A[1]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 6 | 3 | 9 | 4 | 7 |

A[min]>A[2] ——> A[min]=A[2]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 6 | 3 | 9 | 4 | 7 |

A[min]<A[3] ——> continue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 6 | 3 | 9 | 4 | 7 |

A[min]<A[4] ——> continue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 6 | 3 | 9 | 4 | 7 |

A[min]<A[5] ——> continue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 6 | 3 | 9 | 4 | 7 |

A[min] <——> A[i]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 6 | 9 | 4 | 7 |

第三轮

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 4 | 9 | 6 | 7 |

第四轮

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 4 | 6 | 9 | 7 |

第五轮

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 4 | 6 | 7 | 9 |

找到最小数，然后和子数组第一个数交换。6个数字一共进行5次交换。

· Bubble Sort

第1轮排序:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 6 | 1 | 3 | 9 | 4 | 7 |

A[0]>A[1] ——> A[0]<=>A[1]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 6 | 3 | 9 | 4 | 7 |

A[1]>A[2] ——> A[1]<=>A[2]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 6 | 9 | 4 | 7 |

A[2]<A[3] ——> continue

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 6 | 9 | 4 | 7 |

A[3]>A[4] ——> A[3]<=>A[4]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 6 | 4 | 9 | 7 |

A[4]>A[5] ——> A[4]<=>A[5]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 6 | 4 | 7 | 9 |

第二轮排序：

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | 3 | 6 | 4 | 7 | 9 |