

Data Sorting with Thread

Unsorted Data

[8 9 1 0 2 7 3 5 6 4]

STEP 1

Separate a list

[8 9 1 0 2 7 3 5 6 4]

Separate a list

[8 9 1 0 2 | 7 3 5 6 4]

Separate a list

Thread 1

[8 9 1 0 2]

Thread 2

[7 3 5 6 4]

STEP 2

Simultaneously sort **the separated lists**

Thread 1

[8 9 1 0 2]

Thread 2

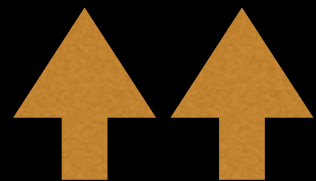
[7 3 5 6 4]

*Both two Threads have been sorted by **Bubble Sort Algorithm**

Simultaneously sort the separated lists

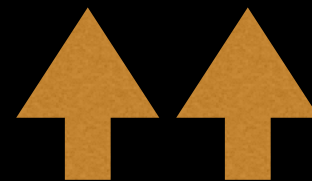
Thread 1

[8 9 1 0 2]



Thread 2

[7 3 5 6 4]

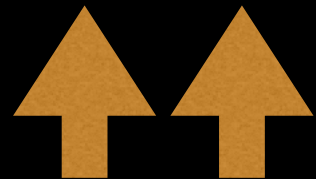


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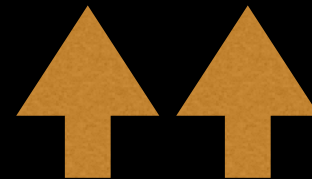
Thread 1

[8 9 1 0 2]



Thread 2

[3 7 5 6 4]

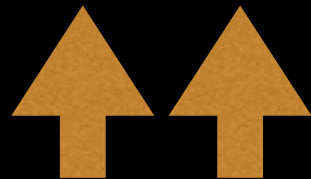


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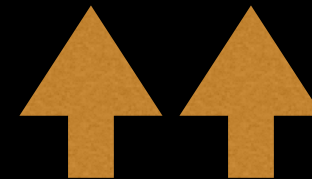
Thread 1

[8 9 1 0 2]



Thread 2

[3 7 5 6 4]

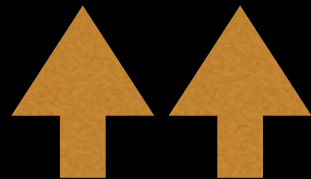


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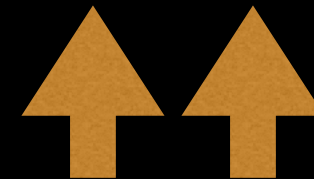
Thread 1

[8 1 9 0 2]



Thread 2

[3 5 7 6 4]

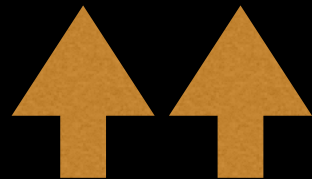


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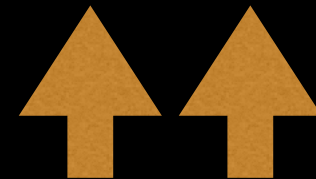
Thread 1

[8 1 9 0 2]



Thread 2

[3 5 7 6 4]

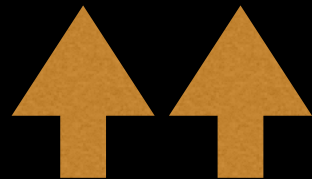


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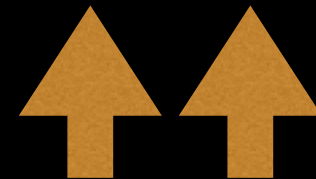
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[8 1 0 9 2]



Thread 2

[3 5 6 7 4]

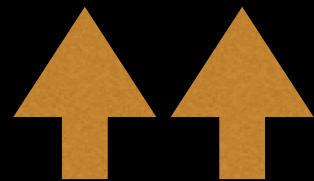


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Simultaneously sort the separated lists

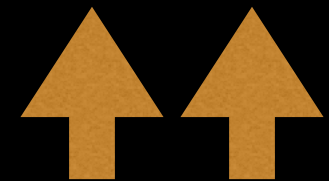
Thread 1

[8 1 0 9 2]



Thread 2

[3 5 6 7 4]

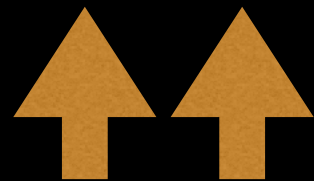


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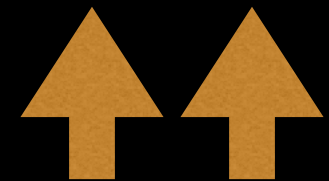
Thread 1

[8 1 0 2 9]



Thread 2

[3 5 6 4 7]

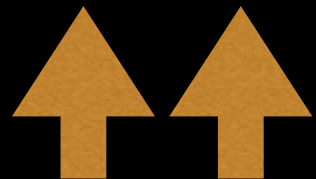


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Simultaneously sort the separated lists

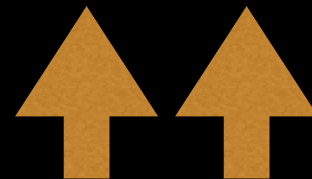
Thread 1

[8 1 0 2 9]



Thread 2

[3 5 6 4 7]

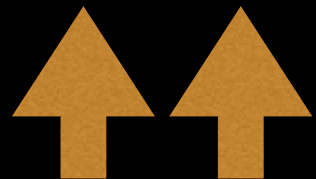


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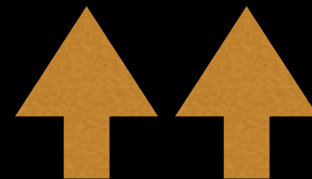
Thread 1

[1 8 0 2 9]



Thread 2

[3 5 6 4 7]

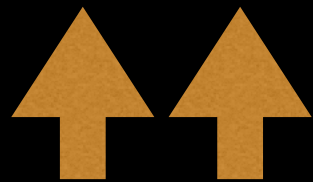


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Simultaneously sort the separated lists

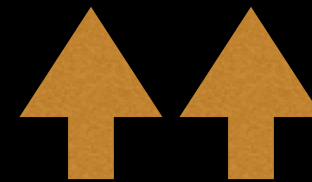
Thread 1

[1 8 0 2 9]



Thread 2

[3 5 6 4 7]

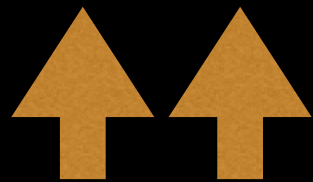


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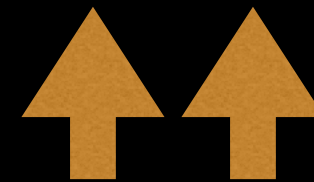
Thread 1

[1 0 8 2 9]



Thread 2

[3 5 6 4 7]

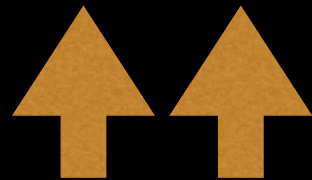


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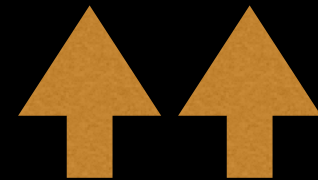
Thread 1

[1 0 8 2 9]



Thread 2

[3 5 6 4 7]

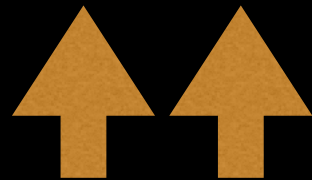


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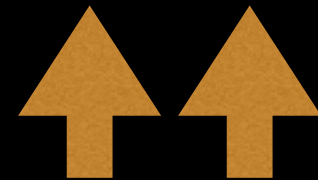
Thread 1

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Thread 2

[3 5 4 6 7]

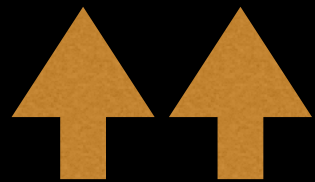


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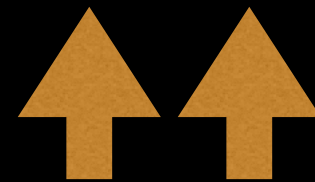
Thread 1

[1 0 2 8 9]



Thread 2

[3 5 4 6 7]

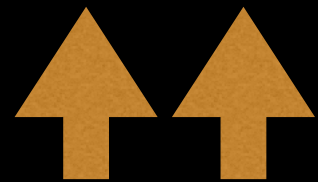


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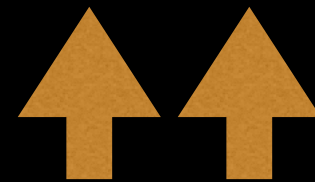
Thread 1

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Thread 2

[3 5 4 6 7]

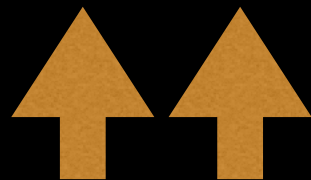


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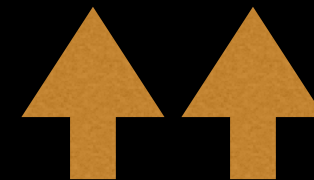
Thread 1

[0 1 2 8 9]



Thread 2

[3 5 4 6 7]

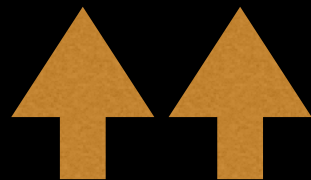


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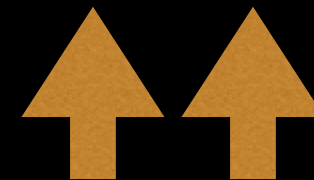
Thread 1

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[3 4 5 6 7]

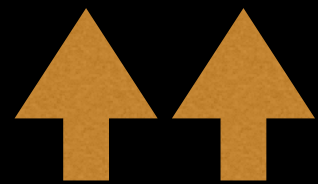


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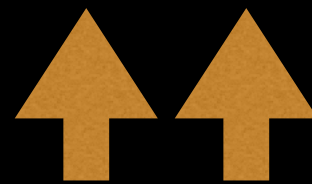
Thread 1

[0 1 2 8 9]



Thread 2

[3 4 5 6 7]



*Both two Threads have been sorted by **Bubble Sort Algorithm**

Simultaneously sort **the separated lists**

Thread 1

[0 1 2 8 9]

Thread 2

[3 4 5 6 7]

*Both two Threads have been sorted by **Bubble Sort Algorithm**

The results

Thread 1

Thread 2

[0 1 2 8 9]

[3 4 5 6 7]

STEP 3

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[. . .]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[

]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[

]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0 1]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0 1]

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[0 1 2

]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0 1 2]

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[0 1 2 3]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0 1 2 3]

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[0 1 2 3 4]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0 1 2 3 4]

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[0 1 2 3 4 5]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0 1 2 3 4 5]

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[0 1 2 3 4 5 6]

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[0 1 2 3 4 5 6]

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[0 1 2 3 4 5 6 7]

Merge the results

[0 1 2 **8** 9]

[3 4 5 6 7]



[0 1 2 3 4 5 6 7]

Merge the results

[0 1 2 8 9]

[3 4 5 6 7]



[0 1 2 3 4 5 6 7 8]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0 1 2 3 4 5 6 7 8]

Merge the results

[0 1 2 8 9]



[3 4 5 6 7]



[0 1 2 3 4 5 6 7 8 9]

The result

[0 1 2 3 4 5 6 7 8 9]

จัดทำโดย

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นายณพนธ์ พลอยวงศ์ 59070082

นายวีรากร พงษ์พุ่ม 59070163

นายสัมฤทธิ์ กลั่นกันหา 59070174