

Sorting

Build Leader table App

- We have a Web Service that supplies the current scores
 - <http://193.61.245.60/score/score.csv>
- Data looks like
 - `<name>,<score>,<degree>`
- There is
 - no order
 - mixes BSc and FdSc
- We have to sort the table
- Separate BSc and FdSc

```
"The Avengers", "48", "BSc"  
"Saturn Tech", "37", "BSc"  
"Kool Katz", "23", "BSc"  
"The Bright Idea", "36", "BSc"  
"JNL", "38", "BSc"  
"The Fantastic 7", "37", "BSc"  
"iHaveFriends", "45", "BSc"  
"Dummies Student Guide Co.", "35", "BSc"  
"Team C1", "36", "BSc"  
"The Carrots ", "41", "BSc"  
"C3-P0", "43", "BSc"  
"Scissor Me Timbers", "37", "BSc"  
"The A-Team", "35", "BSc"  
"Team Unknown", "32", "BSc"  
"GNARGOS", "36", "BSc"  
"Wilson", "37", "FdSc"
```

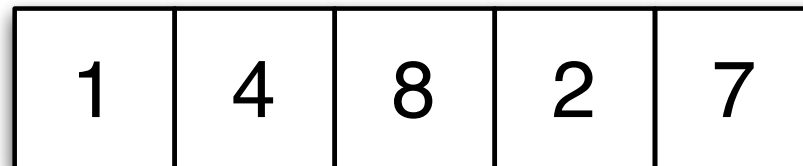
Bubble Sort

- Simple sort algorithm
- Turns a list into ascending for descending order
 - useful for the high score table
- Iteratively compare adjacent elements if they are not in order swap them else leave them along

1	4	8	2	7
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Bubble Sort

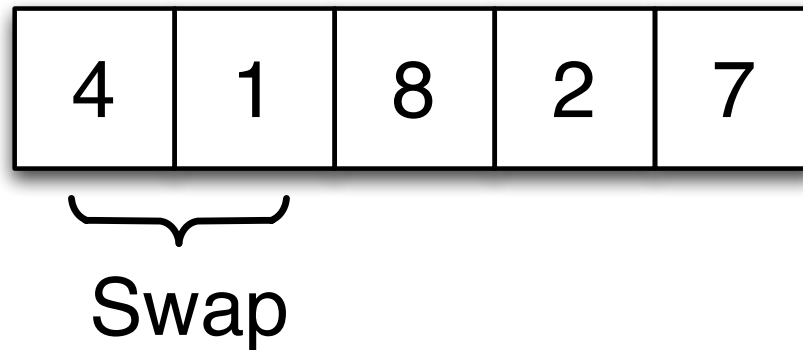
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Compare

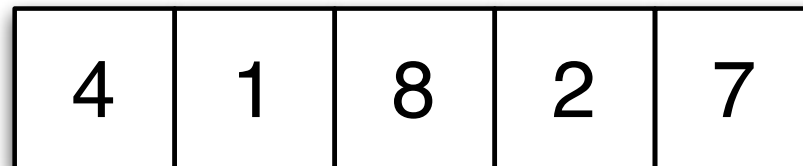
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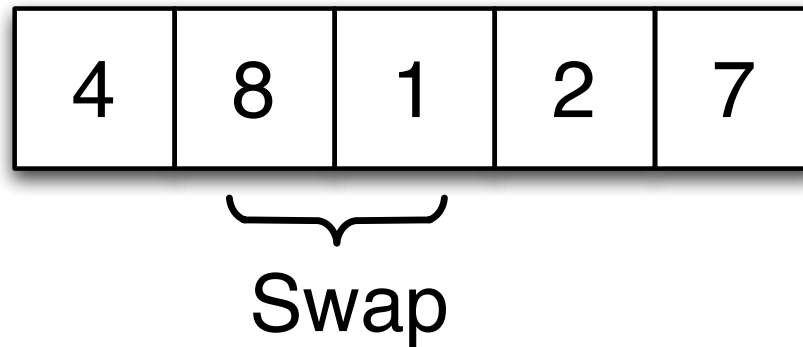
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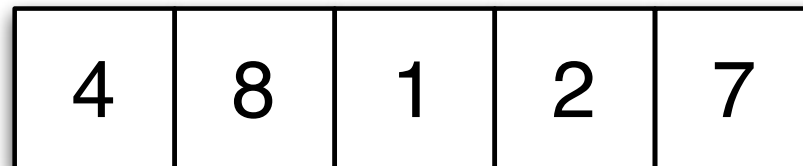
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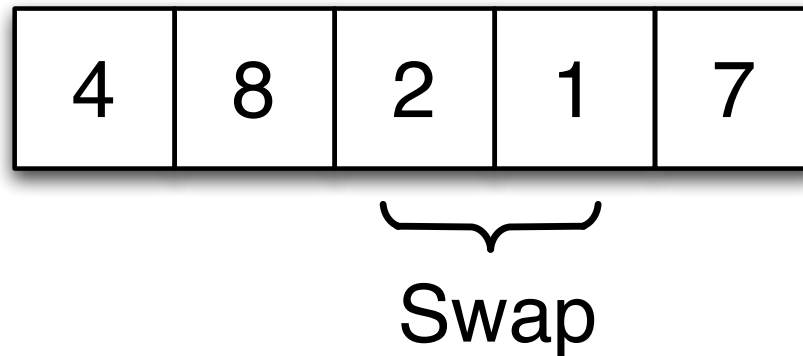
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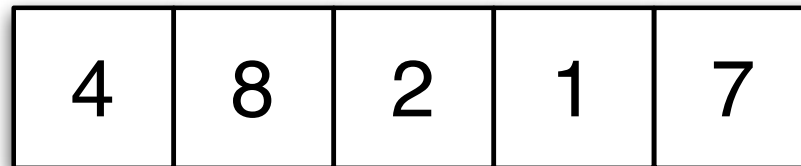
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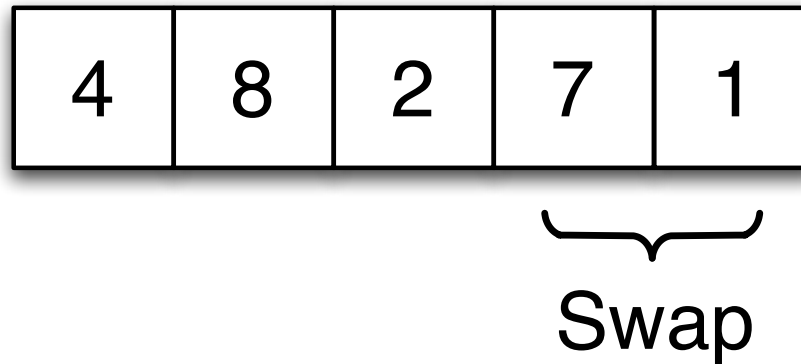
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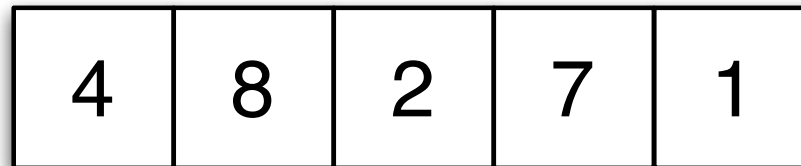
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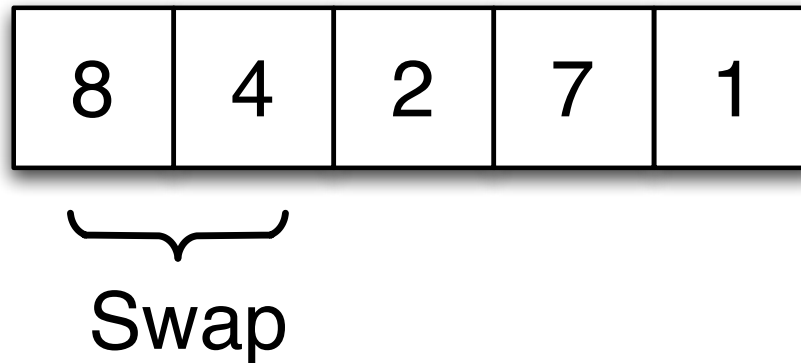
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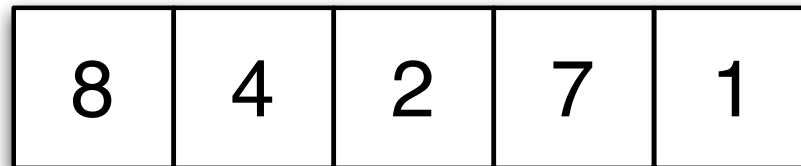
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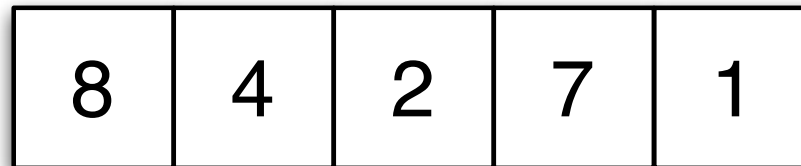
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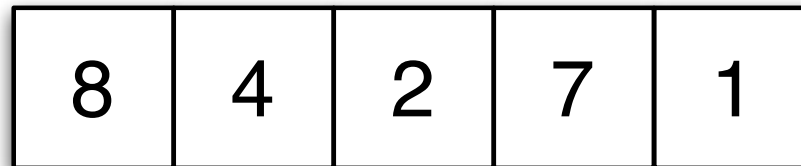
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Leave

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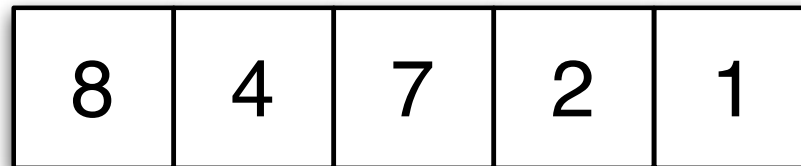
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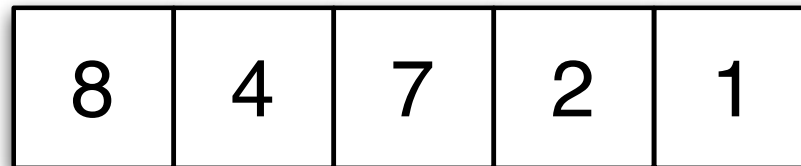
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Swap

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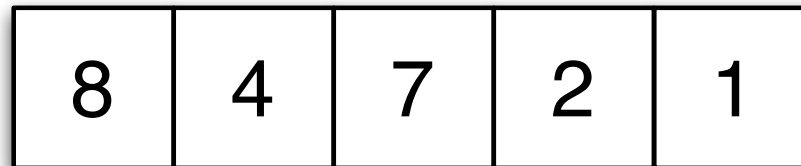
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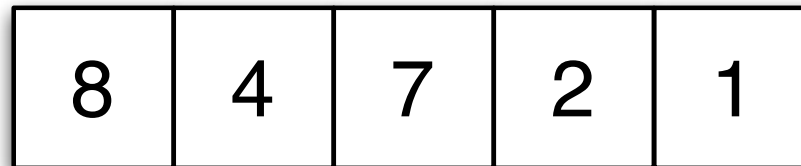
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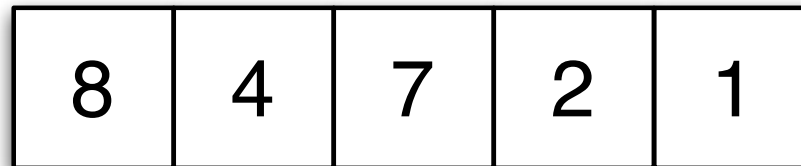
8	4	7	2	1
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Leave

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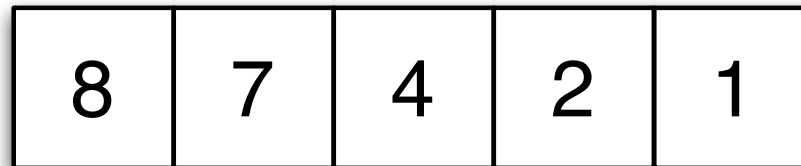
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