Merging

**Merge.**
- Keep track of smallest element in each sorted half.
- Insert smallest of two elements into auxiliary array.
- Repeat until done.

---

```plaintext
A G L O R
```

---

```plaintext
H I M S T
```

---

auxiliary array
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<table>
<thead>
<tr>
<th>A</th>
<th>G</th>
<th>L</th>
<th>O</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>H</td>
<td>I</td>
<td>M</td>
<td>S</td>
<td>T</td>
</tr>
</tbody>
</table>

**auxiliary array**
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```
  A   G   L   O   R
  H   I   M   S   T

  A   G   H   I   L   M   O   R
```

auxiliary array
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Auxiliary array

A G L O R H I M S T

A G H I L M O R S
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