# Mergesort: Quiz 1

- 1. Improvement by reducing the number of merge() function call. Some hints for this problem are provided in the following pages.
- 2. How many times did you spare merge() calls for "MERGESORTEXAMPLE" case?
  - Total number of merge() calls without your improvement:
  - The number of merge() calls spared with your improvement:
- 3. Identify those sets of char array groups that merge() call was unnecessary.

# Mergesort: Quiz 2

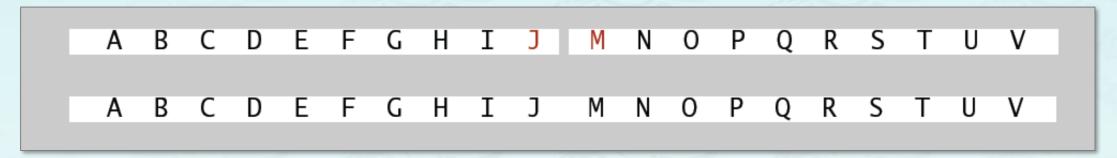
• In the figure, which elements are compared in isSorted() at postcondition?

• Why isSorted() checks only two elements? Is this enough?

merge each sorted list together with its neighbor - maintaining sorted order

# Mergesort: Quiz Reference

- Hint: Do not invoke "merge()" function if two halves are already sorted...
  - Is the biggest item in first half ≤ the smallest item in second half?
  - For example, the following case should not call merge() since J <= M.</li>



#### 정렬들에 관한 좋은 자료를 읽어 보길 적극 추천합니다.

영어: https://medium.com/basecs/making-sense-of-merge-sort-part-1-49649a143478

한글: https://gmlwjd9405.github.io/2018/05/08/algorithm-merge-sort.html

# Mergesort: Quiz Reference

- Hint: Do not invoke "merge()" function if two halves are already sorted...
  - Is the biggest item in first half ≤ the smallest item in second half?
  - For example, the following case should not call merge() since J <= M.</li>

```
A B C D E F G H I J M N O P Q R S T U V

A B C D E F G H I J M N O P Q R S T U V
```