**Merge Sort**

**テキスト, 手紙

自動的に生成された説明テキスト, 手紙

自動的に生成された説明**

**Worst, Avg. Best: ø(n lg n)**

**Insertion Sort**

**Best Case: O(n)**

**Average and Worst Case O()**

テキスト, 手紙

自動的に生成された説明

**Loop Invariants**

* **Initialization:** true prior to the first iteration
* **Maintenance:** remains true before the next iteration
* **Termination**: once terminated gives useful property

**Worst Case of Growth and ø**

* Worst case -> upper bound

**D & Q**

* **Divide:** break the problem into smaller instance
* **Conquer:** recursively solve the sub problems
* **Combine:** sub-sol’n to the original problem