


# YZM 2116

## Veri Yapıları



Yrd. Doç. Dr. Deniz KILINÇ  
Celal Bayar Üniversitesi  
Hasan Ferdi Turgutlu Teknoloji Fakültesi  
Yazılım Mühendisliği

# Sorting Algoritmaları

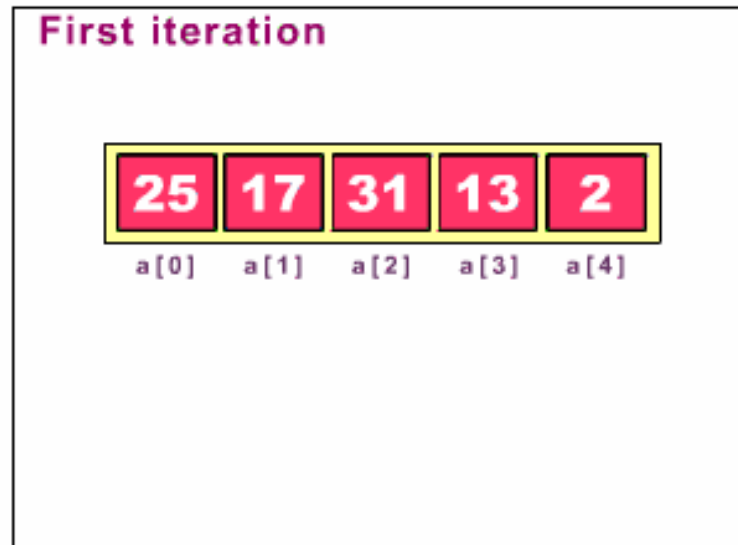
---

Sorting algoritmalarını indirip  
çalıştırın....

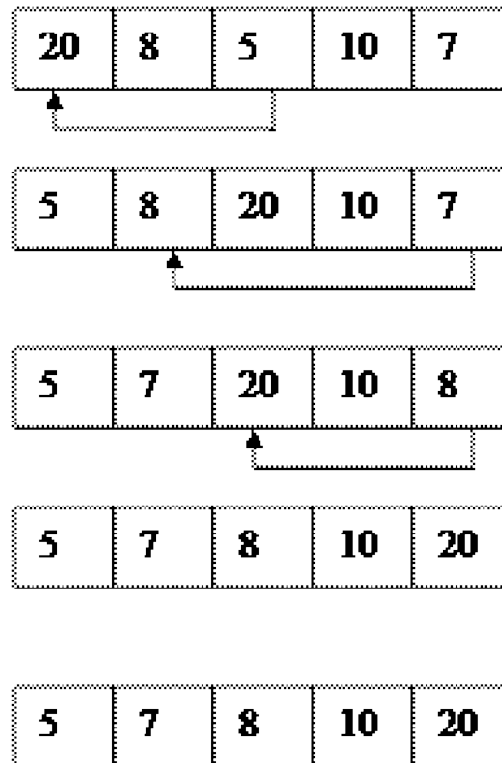
<http://www.kisa.link/GV2>

# Bubble Sort

## Bubble sort



# Selection Sort

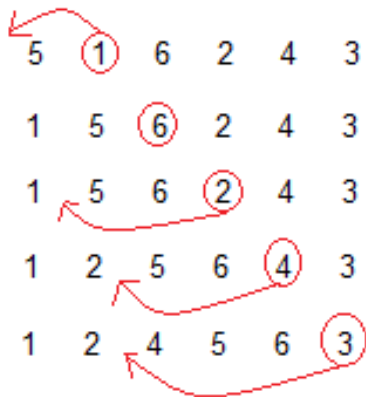


**Figure 44.2: Swap Action (selection sorting)**

# Insertion Sort

5	1	6	2	4	3
---	---	---	---	---	---

Lets take this Array.



( Always we start with the second element as key.)

As we can see here, in insertion sort, we pick up a key, and compares it with elemnts ahead of it, and puts the key in the right place

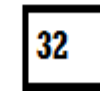
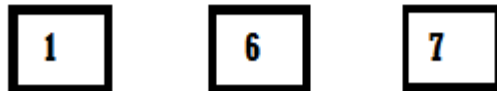
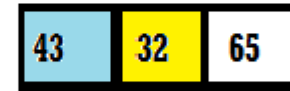
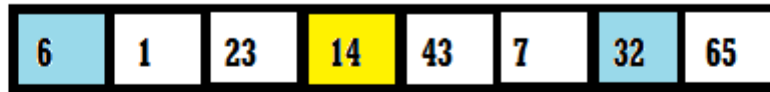
5 has nothing before it.

1 is compared to 5 and is inserted before 5.

6 is greater than 5 and 1.

2 is smaller than 6 and 5, but greater than 1, so its is inserted after 1.

And this goes on...



[www.InstanceOfJava.com](http://www.InstanceOfJava.com)

# Search Algoritmaları

---

Search algoritmalarını indirip  
çalıştırın....

<http://www.kisa.link/GV3>

# Linear Search vs. Binary Search

Binary search

steps: 0

37



Sequential search

steps: 0

37



www.penjee.com