



# **YZM 2116- VERİ YAPILARI**

## **LAB#5: ARAMA VE SIRALAMA ALGORİTMALARI**

# Sorting Algoritmaları

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Sorting algoritmalarını indirip  
çalıştırın....

# Bubble Sort

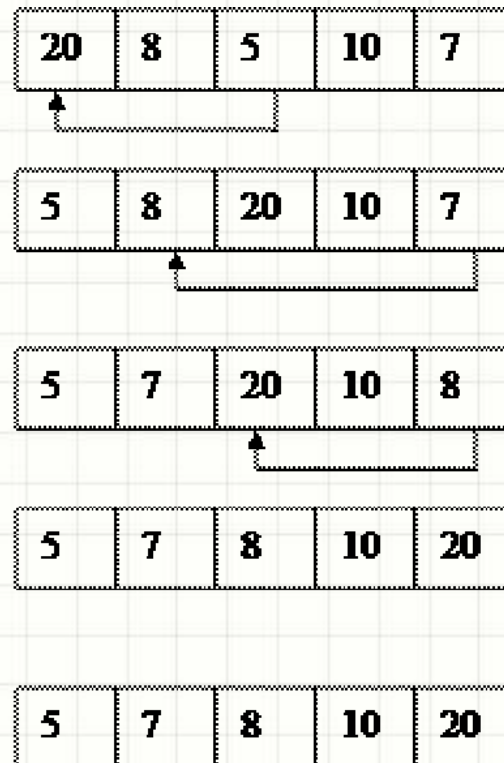
## Bubble sort

First iteration

25	17	31	13	2
a[0]	a[1]	a[2]	a[3]	a[4]



# Selection Sort

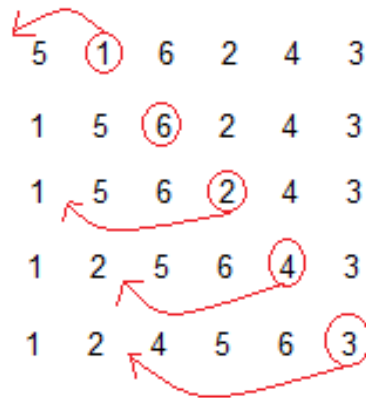


**Figure 44.2: Swap Action (selection sorting)**

# Insertion Sort

5	1	6	2	4	3
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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...

32	1	23	14	43	7	6	65
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6	1	23	14	43	7	32	65
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6	1	7	14	43	23	32	65
---	---	---	----	----	----	----	----

6	1	7
---	---	---

14
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43	23	32	65
----	----	----	----

1	6	7
---	---	---

23
----

43	32	65
----	----	----

1	6	7
---	---	---

32	43	65
----	----	----

1	6	7	14	23	32	43	65
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[www.InstanceOfJava.com](http://www.InstanceOfJava.com)

# Search Algoritmaları

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**Search algoritmalarını indirip  
çalıştırın....**

# Linear Search vs. Binary Search

