

Page 1-)

[22, 27, 16, 2, 18, 6]

→ [2, 27, 16, 22, 18, 6]

→ [2, 6, 16, 22, 18, 27]

→ [2, 6, 16, 18, 22, 27]

2. Big O Notation

$O(n^2) \rightarrow n=6 \Rightarrow O(36)$

3. Time Complexity

Average Case = Average time taken for all cases

Worst Case = Maximum time taken for any case

Best Case = Minimum time taken for any case

4. Average Case

5. [2, 3, 5, 8, 7, 9, 4, 15, 6]

[2, 3, 4, 8, 7, 5, 15, 6]

[2, 3, 4, 5, 7, 9, 8, 15, 6]

[2, 3, 4, 5, 6, 7, 8, 15, 9]

Proje 2-)

1. $[16, 21, 11, 8, 12, 22]$

$$[16, 21, 11] - [8, 12, 22]$$

$$[16] [21, 11] - [8, 12], [22]$$

$$[16] [21] [11] \quad [8] [12] [22]$$

$$[16] [11, 21] \quad [8, 12] [22]$$

$$[11, 16, 21] \quad [8, 12, 22]$$

$$[8, 11, 12, 16, 21, 22]$$

2.) $O(n \log n) \rightarrow O(6 \log 6)$

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