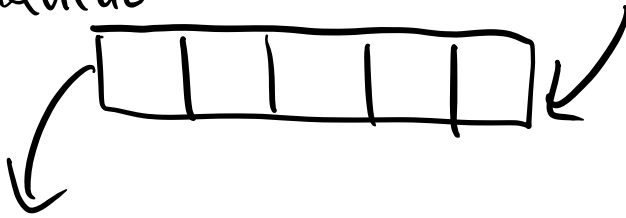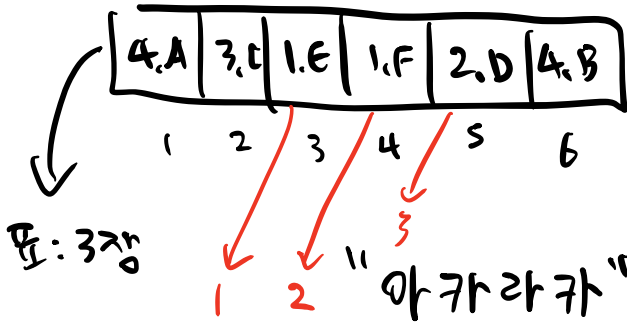Queue

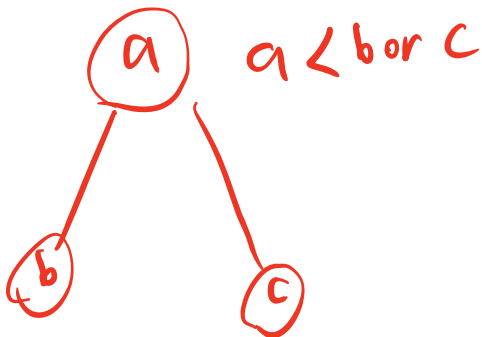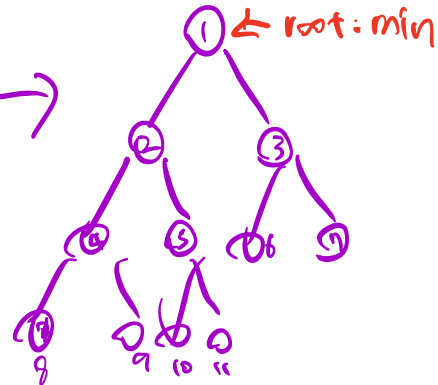|				

FIFO

4, A
4, B
3, C
2, D
1, E
1, F

Priority Queue

4,A	3,C	1,E	1,F	2,D	4,B
1	2	3	4	5	6

4, A
4, B
3, C
2, D
1, E
1, F

표: 3장

1   2   "아카라카"

⟨최소 이진 힙⟩

↓   ↓   ↓
minimum binary   heap →

list →

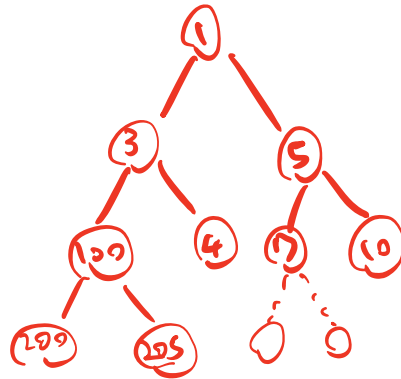|	1	2	3	4	...
0	1	2	3	4	...

← root: min

a < b or c
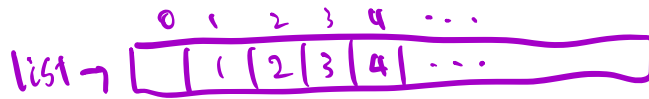
ex) 1, 3, 4, 5, 7, 10, 100, 200, 205

list → | | 1 | 3 | 5 | 100 | 4 | 7 | 10 | 200 | 205 |

< 힙 생성 >

Data: 1, 2, 3, 4, 5, 6, 7

list → | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

힙 속성 O
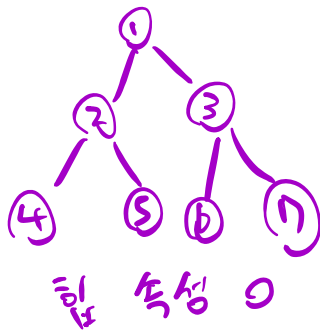
Data: 3, 4, 1, 10, 20, 5, 2

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |

list → | | 3 | 4 | 1 | 10 | 20 | 5 | 2 |

(int) N/2

힙 속성 위배

〈 새로운 데이터 추가 〉

new data: 0

(int) N/2

힙 속성 위배

〈 최솟값 출력 〉

0

힙 속성 위배

Entry → | | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
          0   1   2   3   4   5   6   7

오른쪽 자식 : index x 2

왼쪽자식 : index x 2

①
②   ③ → 3
④ ⑤ ⑥ ⑦

힙 속성 ○