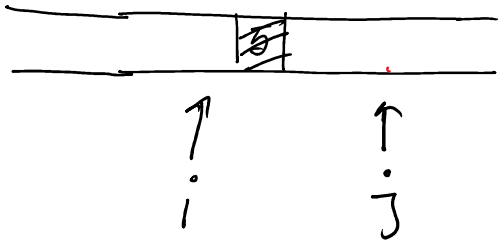
Class 4: STL

Thursday, November 16, 2023 9:01 PM

(10) Deque

ⓐ push_front
ⓑ push_back
ⓒ pop_front
ⓓ PoP_back



popback

popback

PB

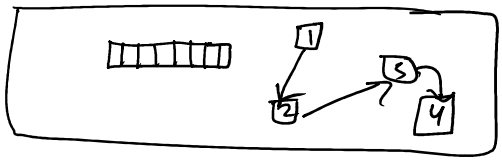
5 - PF

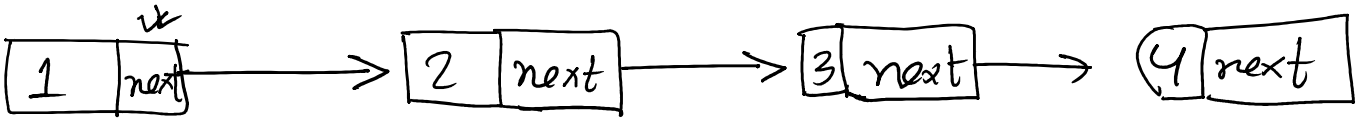
7 - PB

8 - PB

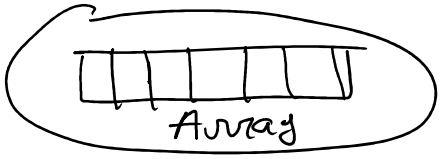
1 - PF

3 - PF





Size



queue( )

stack( )

(11) Priority Queue (Heap Data Structure)

[1 3 -1 -10]

pq.top() → 10

pq.top() → 9

pq.top() → 3

pq.pop()	O(log n)
pq.pop()	O(log n)
pq.pop()	O(1)

```
struct e {
    int a, b;
    float c;
};
```

X (a_x, b_x, c_x) Y (a_y, b_y, c_y)

Flushing Output Buffer

Compile Time Runtime

(12) Sorting

{first, second}

[1, 2]
[2, -1]
[2, 4]
[4, 4]

(2, 4)

[2, -1]

[1, 1]
[3, 0]

first Inc.

→ Second Inc

2, 10

(2, 9)

[3, 0]
[1, 1]

(2, 9)

[1, 1]
[2, 2]
[2, 0]
[2, 9]
[3, 0]