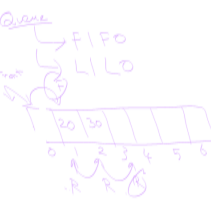


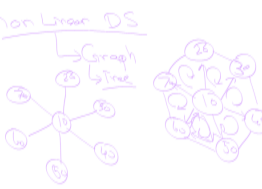
DS	name	Symbolic	Complexity	Case
Array	arr	arr[i]	O(1)	any
Vector	vec	vec[i]	O(1)	any
Stack	st	st.top()	O(1)	any
Queue	q	q.front()	O(1)	any
Map	m	m[key]	O(1)	any
Hash	h	h[key]	O(1)	any
Graph	g	g[u][v]	O(1)	any



Types  
1) Fixed size  
2) Dynamic  
Operations  
1) Push  
2) Pop  
3) Peek  
4) Is full  
5) Is empty



Priority Queue  
1) Insert  
2) Delete  
3) Peek  
4) Is full  
5) Is empty



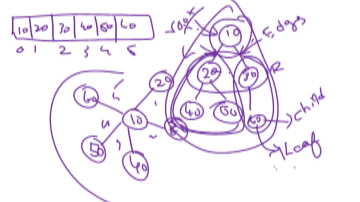
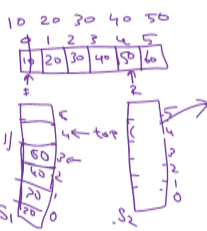
Priority Queue  
1) Insert  
2) Delete  
3) Peek  
4) Is full  
5) Is empty

Op	Time	Space
1) Insert	O(1)	O(1)
2) Delete	O(1)	O(1)
3) Peek	O(1)	O(1)
4) Is full	O(1)	O(1)
5) Is empty	O(1)	O(1)

Priority Queue  
1) Insert  
2) Delete  
3) Peek  
4) Is full  
5) Is empty

Priority Queue  
1) Insert  
2) Delete  
3) Peek  
4) Is full  
5) Is empty

Priority Queue  
1) Insert  
2) Delete  
3) Peek  
4) Is full  
5) Is empty



Priority Queue  
1) Insert  
2) Delete  
3) Peek  
4) Is full  
5) Is empty