Lec 9: Queues
Array-Based

Why Queues?? → First In First Out (FIFO)



→ First in
→ output
First out
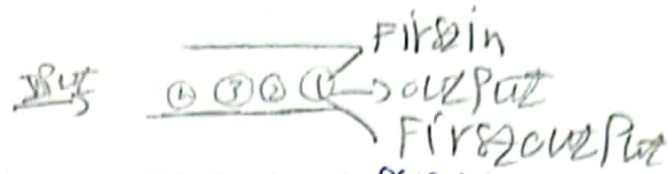
Here we are assuming all elements have same effective priority.

Array imp 1: Physical model { Front is Fixed }, Rear Dynamic

- In dequeue we should shift All elements (Big complexity)
So we use...

Array imp 2: Linear model { two indices, Front and Rear }

will have problem in size So we use...

Array imp 3: circular



Front: Rear / occupied

Rear: Front / Free

to make Diff between Empty and Full queue we waste one location

Smarter way: use size variable → also this let Fn Queue size O(1)