A Que ye

Queue Ps daterstructure that stores Plem Pr FERST-EN/Flast-out manney.

- 49192e First compagnet data first, while other wait need 8 by their tyrn - Fifo rojethod - First in Hist out Ex-point sale system at resturant) real (16e (approaution) - pronter queue - call center phone system

- & smpty

- delete 94eue

- is Full

Queue Operation.

execute overle

- Enqueue (insesteng)

- Dequeue (removing)

- peck

Implementation

- carculary ought

2. IPAKED list

19 Jean Onene nobed Time and space compexity of La using space Time complexity complexity Mnear Queue - Array 0(11) 0(1) 0(1) creak dueul $\mathcal{O}(t)$ 0(1) enqueue deQyeu E 0(1) pecx isempty 15 Rull delete entire ourue All monethods are an pc! # CPrcular Queue using Array? - dedueue method causes blank cells need ? Time and space complexity of coursing Array circular Array-Queue 0(2) 0(1) create overel enducue 0(1) dequeue PERK isempty is full pelete entire aven * methods in pc. 1

Queue using inneed list Time and space complexity of onene using uniced list complexin ovene linked list complexity creak duene enqueue dechueue peck Ktamassi pelete entire Queun Unred list preberable queue Mulle space extricient when to use Avoid Queue - FiFO functionally ps rainimum - The chance of data corruption -Rondom auess ps not possible