COMPUTER SCIENCE AND DA

Data Structures through Python



Queues and Hash Tables

Lecture No. 2





RECAP

-> Implementation of Simble Queue wing brute force approach

-) Drawback of Simple Queue

- U

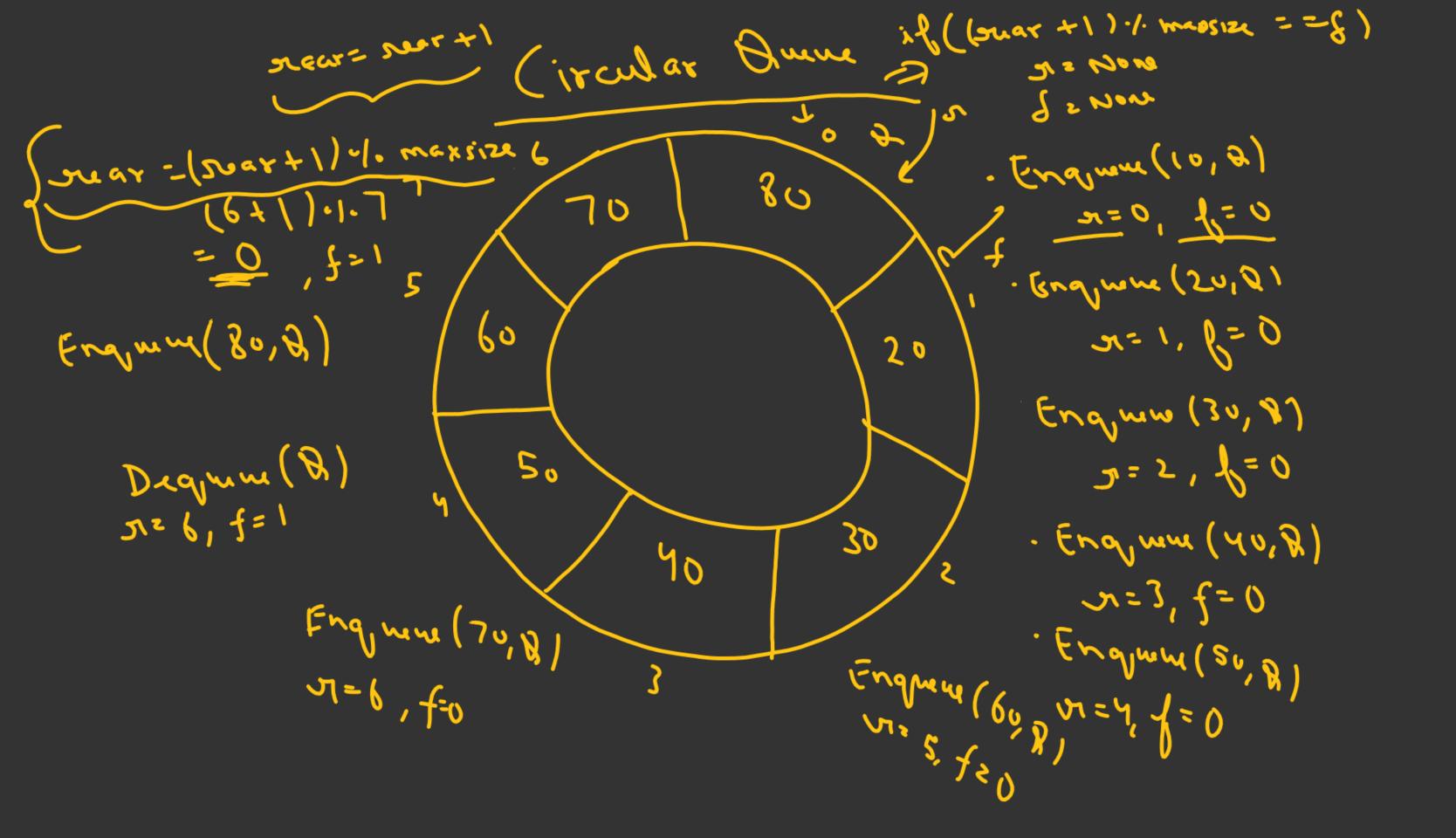
Solution to this Drawback is

Circuler Amm

Topics To be covered



- 1) Circular Anene
- 2) How circular grune solve the drawback of Simple Queue
 - 3) Problem Solving



Implementation of Circular Quene def Engume (CQ, value): 7, f, maxise (31+1) 1. maxs12e == f: CQ [10 20 30 40 50

brint ("Aum is full") frird Overflow (1 + 1) ... maxinze == f: C=9,0=0 if I is Mon and fing wow ((P, 40)

The man part of is More: (B20) アニ 7.10 2 = 7 Enguen (CR, 60) (0[1] = 50 J1=34.5=7 Englum (CB, 30] (4+1)./. 5 2 = (21 + 1) . 1. maxissé Endman (core) 2 = (21 + 1) . 1. maxissé Endman (core) 2 [n] B)

Dequere (CD) maprize = 5 det Degne (CA): La Quem is rubts. 4== Now: þind ("Quem is emþty") Degnens (CQ) L del. val= ce[3]=40 Dedmar(ce) gr-19 = CB(t) f=4.1.5 = 4 f= 2-1.5 = 1 : h== 1 Degmu ((R) Drdmm (CB) C1 302 = 100-17 = 50 L du. vol = (B(4) = 50 J=21.5=2 Jegum ((B) f-11+11, wexzist m gy-rag= (B[5]330 d=3.1.2=3 southern du-val

R) You are given a circular queue with

N=10, front=7, rear=3.

N=10, front of elements in Aun.

What is the no of elements in the air to the notation of elements.

Juan front



THANK - YOU

