COMPUTER SCIENCE AND DA

Data Structures through Python



Queues and Hash Tables

Lecture No. 5





Topics to be covered



```
- Doubh Ended Dume (Deque)
      Ly Enguer-sear (D, value)
       C Engune - front (D, value)
        C Degme - front (D)
           Degum - Jan (D)
  Agenda => Priority Queue
          =) Hart Tables
```



Priority Queue



in which element is Priority Dum is a special dum not on the basis of In Priority Rum every element has two attribute map

Le, value & priority

Le, value & priority dubted on the basis of priority arrival sequence delet elements from higher priority to homer manhable thanks from lower priority to higher broader to PB= {'A':2, 'B':3, 'C':1, 'D':5, 'E':4} higher value - higher priority PR. sort() Dispiper Di E, B, U, C, for is in PR Invertion, A' B' (D' E bor hohe!

27 3 4 5 6 7 n=2, 1 fzy Dequer - front 1) 21=2, 5=5 Degum - suar() n=1, =5 Engww- front (8) 71=1, =4 Enguen - front 191 21-1-1-3

Degmu - Juar () 21=0, 1=3 Englum - mar (10) 1=1, 4=3

(f + re) Enisq 1+3



Hash Table



a linear the hast function. 0 41 32 Collision: In hash stable if key of stown with creates

Through the hash function is same then the approach Collision. 1) Open harring

Linear Probing

Buadratic Probing

Double Mashing



Summary



1) Priority Queue

2) Hack Table



THANK - YOU