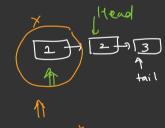
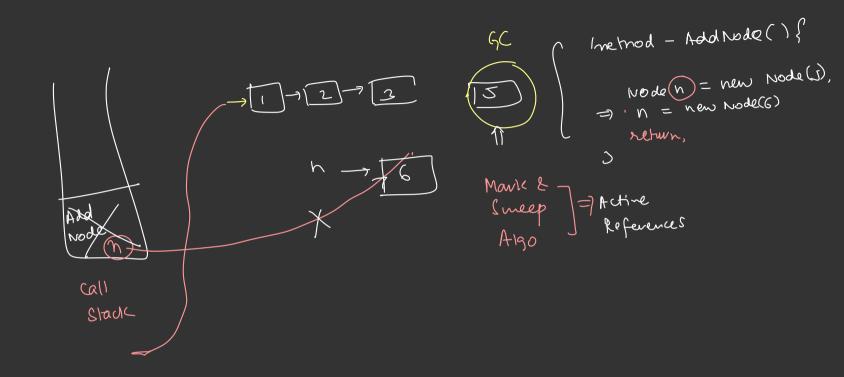


' Queue using linked vist Adv_ tail fundamental 7 Dynamic head ် (၊) hebook so wasterge of once for all of Nodes Menony Queue Class - Stack Node head - quaer V - mel mode fail -graph Insert(){ hide - Leap - hashlable = tallhe low lovel 100pC) { dotalts = head

```
Implementing a Queue Using LD
```



deque () { if (head = NULL) { Node temp = head; head = head hext Programmen's temp. next = nu1) deble temp get Size() { the Neturn Size; empty(){ return Size ==0; rear()[front() { return tail. dala; return head.data;



queue, Reverse he data in grene A. Given ٥ FIFO Quer = { 19, 13, 12, 11, 10, 8 } Stack renerse (Queue q) { Stack s = new Stack; while (! q empty ()) (S. push (q; front()), Q-S q. Leque (); Stack (UFO) 3

while (Is.empty()){ 5 -> Q q. enque (s. top()), ()qoq.2

dvv[3]

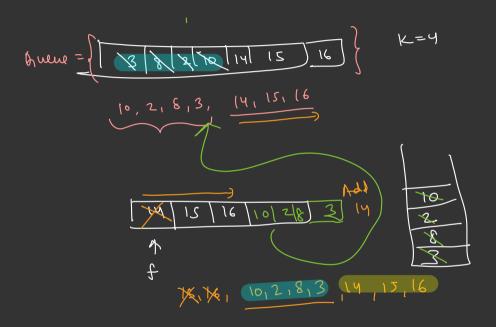
0(1)

A velo-

5-3-6-1976-7-8

- → DOCS - → Java Collection fW → Lang Spectic

(a) Given a Owene, Reverse (first K) element of Querl.



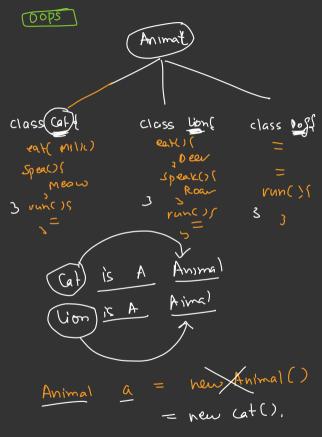
Grant $\frac{1}{2}$ Stack

Stack $\frac{1}{2}$ Stack $\frac{1}{2}$ $\frac{1}$

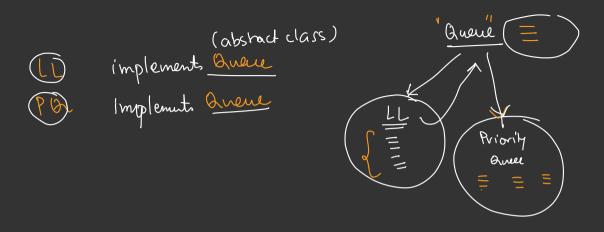
10.35 Break(:) BES

\$5\$\$





(Interface) hinked list() collections class buerre (Java peek() { // front() get be front element offer()(add() Poll () { 11 add to rear vemore(){ 3 add()(>= 3* Abstract List Class



generate Kh number by using (1,2,3) Fun Problem K = 5 6 utput = (12) $\begin{bmatrix} 1, 2, 3, \end{bmatrix}$ $\begin{bmatrix} 11, (2), 13 \end{bmatrix}$ $\begin{bmatrix} 21, 22, 23 \end{bmatrix}$ $\begin{bmatrix} 31, 32, 33 \end{bmatrix}$ $\begin{bmatrix} 111, 112, 113 \end{bmatrix}$ = 1,2,3,4,5,6,7,8,9, 10,11,12, ---12 13

H

K=13

Stop he

4'Shas

elements —

1000

K= \$0 22

(121,122,123)...

Front

(1217)

(.Size())
$$K=13$$

 3 $3 < 13$
 $i=0$ 6 $6 < 13$
 $i=1$ 9 $9 < 13$
 $i=2$ 12 $12 < 13$
 $i=3$ 15 $15 < 13$ Shop

Array List (Int 7 1 = new Array 45t();

Guerre

X 2 3 11 12 13 1 greene q q adol(1) 9 add (2) g add (3) while (f = g front(),cn++=1 - f((n+== 1c) { f+1 } g deque(); (n++7 -)f((n+ = = 1c) of f+2 } q add (f+1) (n++=1 if(m+==K) { f+3 } 9. add (f+12') q. add (f+3') ュ

