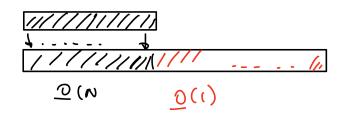
## Nutur fure kopement repor

Ринашитески расши раючийся шассив. (z)

(=0... n arg(:)=arr(:] ||0 (n)



dass Dynamic Array

1. Size - KON-60 Fremermos & marcust 2. capacity - em Kocino Korenel repa

3. array - kommental

merog is empty () ?

return Site = = 0

S:4e() }

return size

uemog resize C) ?

new-arr = [...] /pazuer capacity \* 2

for i= o... capacity

<u>0</u>(h) reman [ i]=arr (i) delete arr arr = new\_arr capacity = 2 wemog push.back (elem) ? echu size +3 >= eapacity  $\sqrt{2(N)} \sqrt{P = \frac{1}{N}}$ la resitec) arr [ size] = ekm Site + = & chebran. now bob pack () 3 echu site = 0 6 Julion Site -= 1 return and [size] 11 ygostu Bononteul presh-back? P 0\*(7) ATD Concor - A BCOMPAK MEETE TUN A ASITEDIX (egreochozaroù crucox) Node value next push-bach (F) pop-back (V) push-front pop\_front

dass push-back (elem) } / ecru noot=null

runner = root

runner = root

return

runner = Null

runner = Null runner = runner next new\_node = Node (elem) new\_node. next= Null nunner. next = new\_rode Z pop\_back() } runner = root runner= null // HET on-6 echu Louiska ecu nunrer. next= null []>Mull de lete runner root = null return /while numer. next. next !: null runner = runnet next delete runner next runner next = null

push-front(elem) new\_elem = Node (ekm) ren\_ dem next= root most = new elem pop-tront () ? ecnu root. vext=null ? delede root root=vull old-noot= noot noot= old\_noot. next delete old-root Acum morisa: pop-back D(N) pop-front push-front (1) Dynamic Arrae VS List + tem 0\*(3) op. no mosexch [ 3mms] somered somered 4) xparrem pazrose KNORCC -> YMB

1 Ha nogymas
s) Comerc CATA)
Cononta Kreunau
FILO LIFO
Peanuzausus Conexa: (Ha Chucke)  push-Aront 2(1)  Class Stack 3
stack = list()
push (ekm) }
Stack push - Lout (elem) (10(1)
pop () } 8tack.poptont () //2(1)
2
top() ?
return stack noot value // repres nuros
3
(IV) Orapege
push ->                   -> pop

LID Oriepego ra 23x comexax las t Queue ? stack first Stack last push (elem) 3 first. push (akm) pop () 3 not last.is\_empty() ecm elem = last.fop() last.pop() return elem while not fist is empty () last. push (first. topzi) first popc) last. is\_empty() echu Que 5KG urare: elem = last.fop() last.popc) return elem

FIFO

Achan Toranda D\*(1)