DAAPY 4

Wednesday, September 27, 2023 4:44 PM

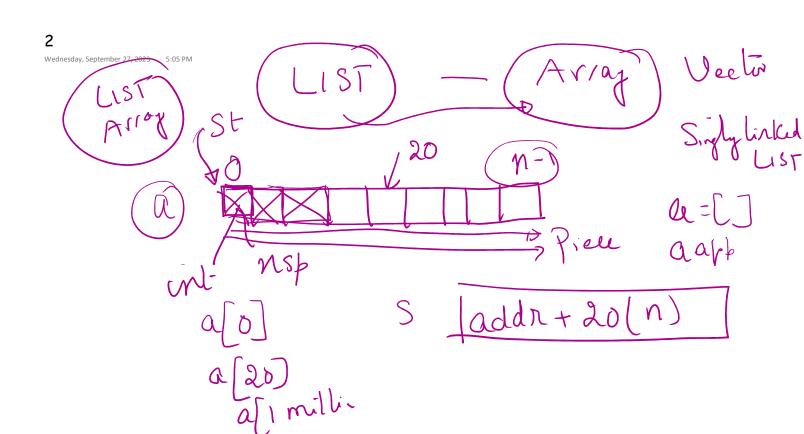
DATA STructure (100)

PRIME Will Stark

fra LW

Below

complex Wednesday, Sep		TRAIN		
	DYNANIC ACRAY LISTO(1) Anology	N (O(1)		
Insert	ANGRO (N)	DO(1)		
len	9(1)	Anyklar O(N)		
asil	9(1)	(N)		
FIND	$\mathbb{O}(\mathcal{N})$	-O(v)		
Delete	O(N)	+ $O(n)$		



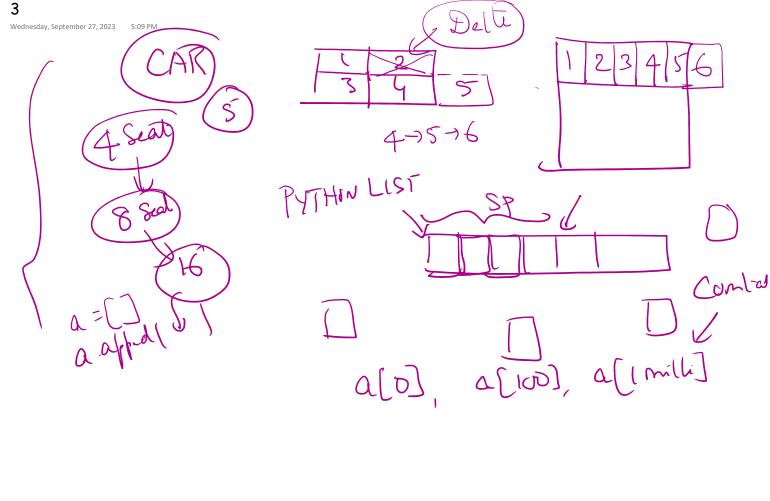
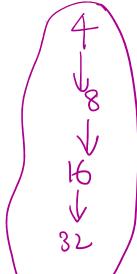


Table Doubling Algor. Inn



Buy

TABLE





STACE Quent

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(mla)

= 1 a.appoind (10)

Inla)

- 2 (30)

- 2 (40)

A.appoind (20)

- 2 (30)

- 2 (30)

- 3 (40)

A.appoind (20)

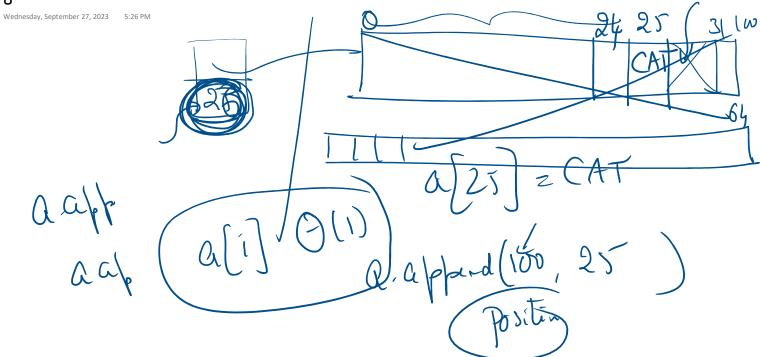
- 3 (40)

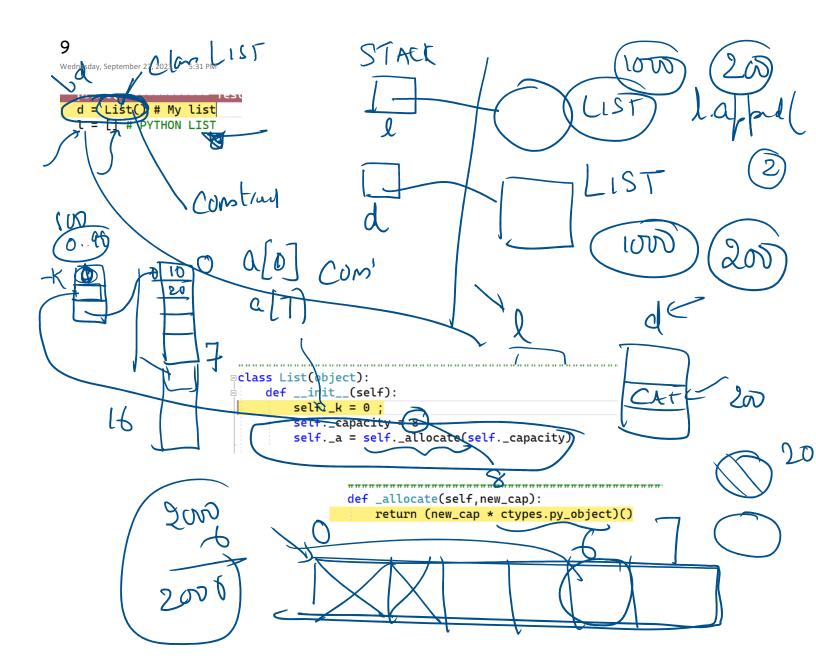
A.appoind (20)

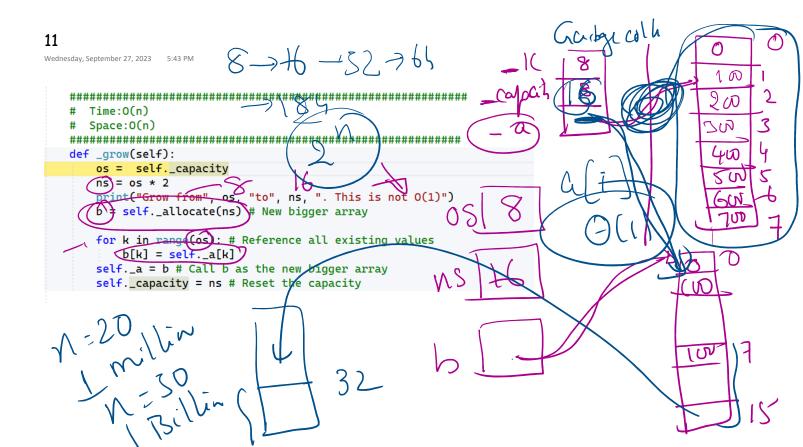
- 3 (40)

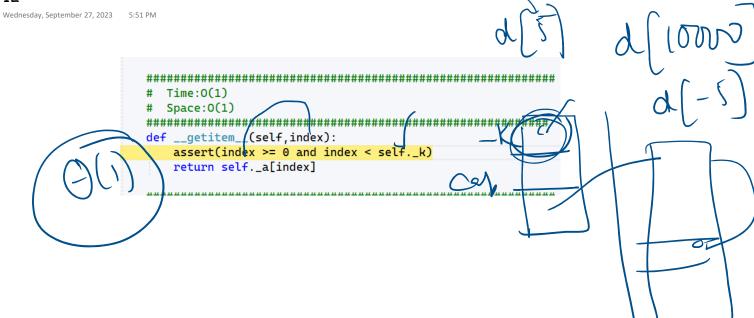
A.appoind (20)

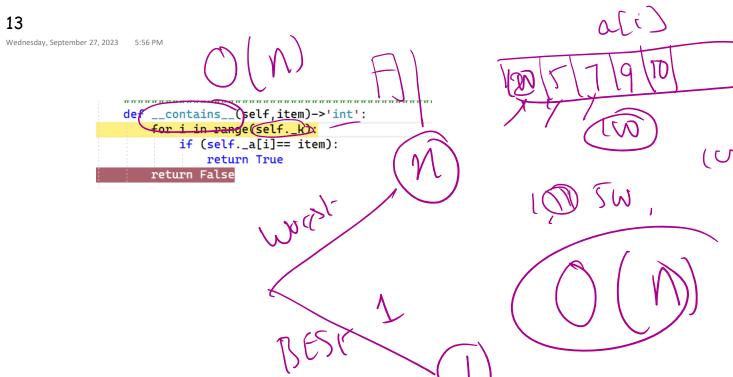
A.

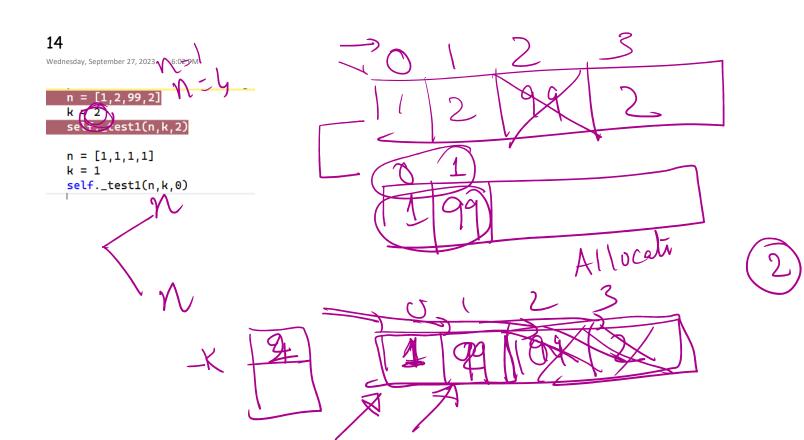










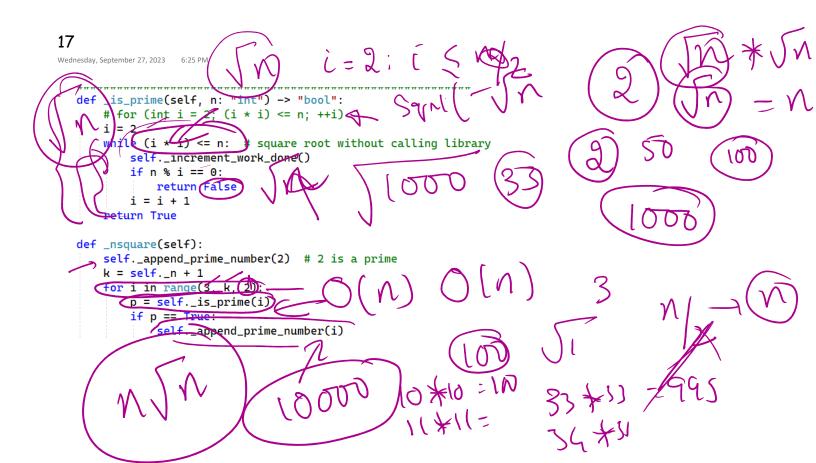


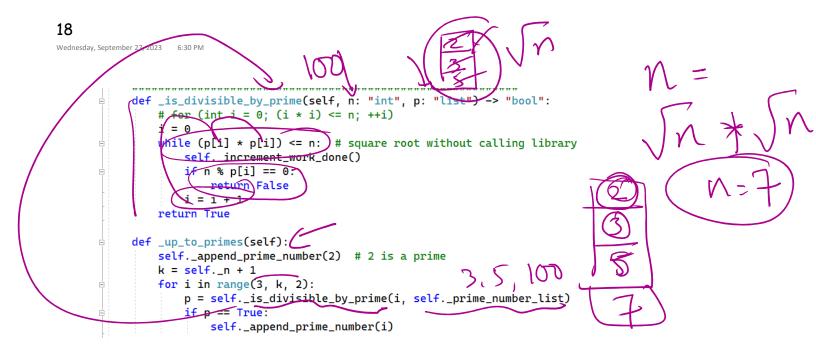
[1,2,99,2]

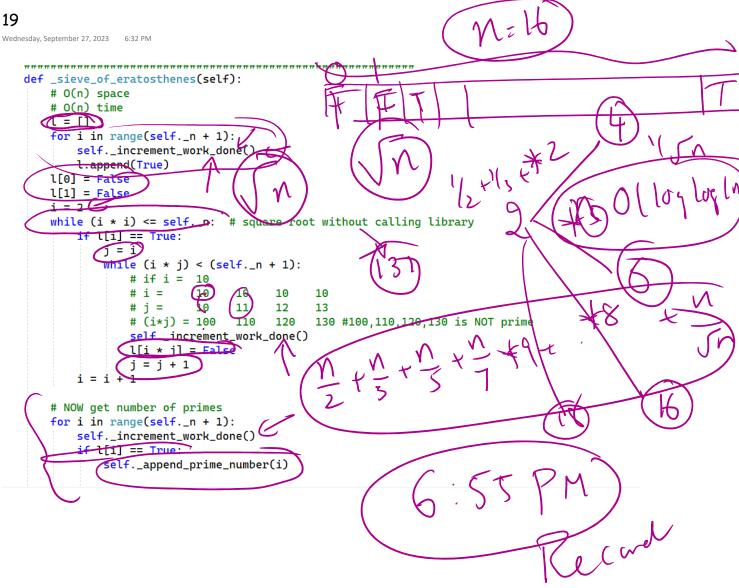
```
Testing delete--
             -Before delete
mylist d = [1 2 99 2 ]
           [1, 2, 99, 2]
        ---After deleting all 2 from the array-
mylist d = [1 99 ]
            [1, 99, 2]
pylist 1 =
```

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Count = Count-ti



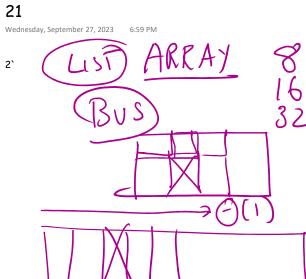


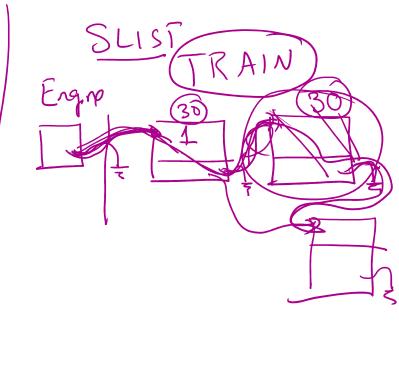


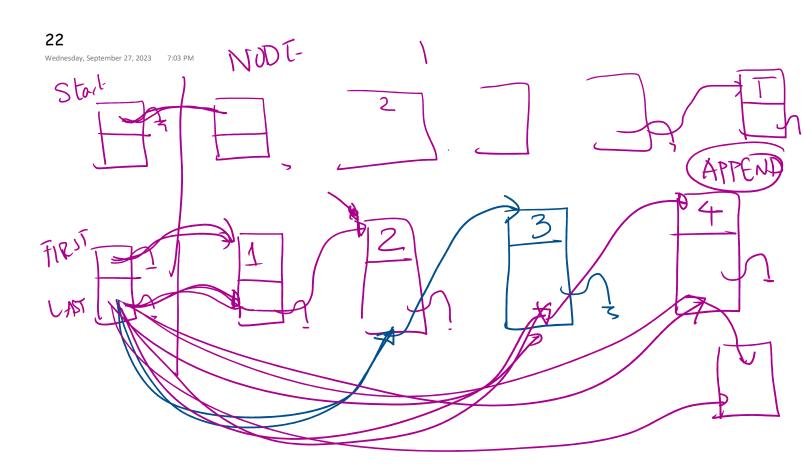
Singly Linked List

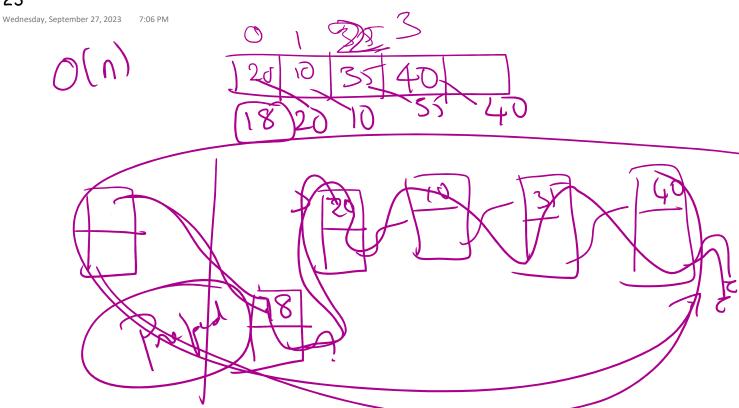


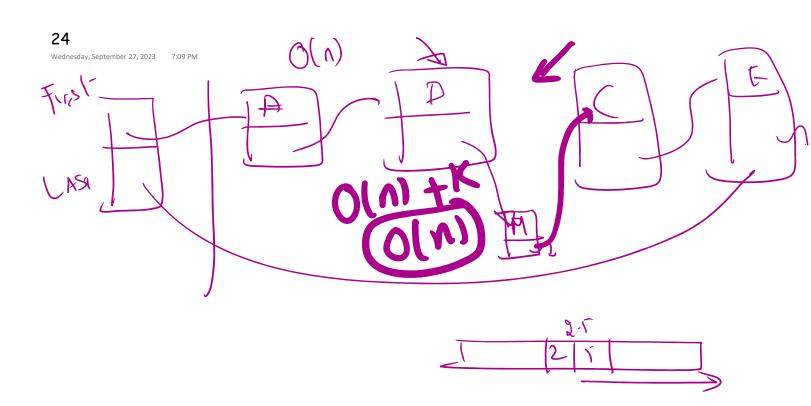
~	2	Add Two Numbers	41.3%	Medium
~	19	Remove Nth Node From End of List	42.6%	Medium
	21	Merge Two Sorted Lists	63.2%	Easy
	23	Merge k Sorted Lists	51.0%	Hard
	24	Swap Nodes in Pairs	63.1%	Medium
	25	Reverse Nodes in k-Group	56.6%	Hard
	61	Rotate List	36.8%	Medium
	82	Remove Duplicates from Sorted List II	46.5%	Medium
	83	Remove Duplicates from Sorted List	51.5%	Easy
	86	Partition List	55.1%	Medium
	92	Reverse Linked List II	47.2%	Medium
	109	Convert Sorted List to Binary Search Tree	60.9%	Medium
	114	Flatten Binary Tree to Linked List	63.3%	Medium
	116	Populating Next Right Pointers in Each Node	61.5%	Medium
	117	Populating Next Right Pointers in Each Node II	51.2%	Medium
	138	Copy List with Random Pointer	54.1%	Medium
	141	Linked List Cycle	48.8%	Easy
	142	Linked List Cycle II	50.0%	Medium
	143	Reorder List	54.5%	Medium
	146	LRU Cache	41.7%	Medium
	147	Insertion Sort List	52.1%	Medium
	148	Sort List	56.4%	Medium

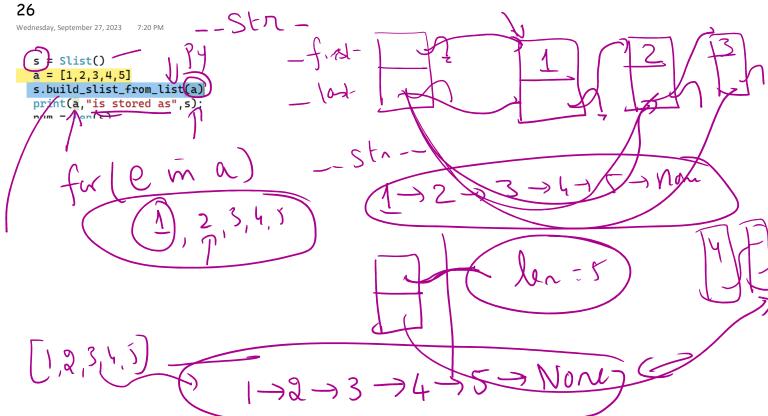




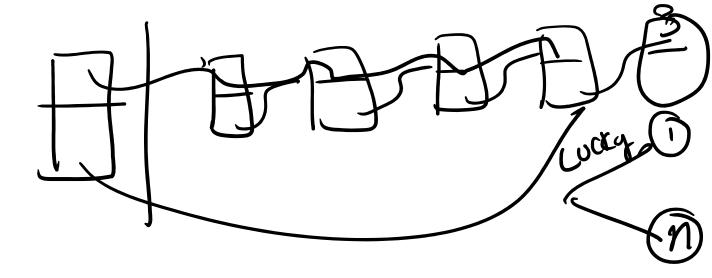












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```
s = SLIST()
a = [1,2,3,4,5]
s.build_slist_from_list(a)
print(a,"is stored as",s);
num = len(s);
print("Size of s =",num)
assert(num == len(a))
x = 1
s.delete(x)
print("after removing",x, ":",s)
num = len(s)
assert(num == len(a)-1)
x = 5
s.delete(x)
print("after removing",x, ":",s)
num = len(s)
assert(num == len(a)-2)
x = 3
s.delete(x)
print("after removing",x, ":",s)
num = len(s)
assert(num == len(a)-3)
```

