Sorting Techniques-	May
WEDNESDAY 10 11 12 13 14 15 16 17 18 19 20 21 22 23 23 23 23 24 25 29 30 25 20 27 28 29 20 20 20 20 20 20 20 20 20 20 20 20 20	8 9 22 2
# Bubble Sort:-	
	OL.
Most Basic Scrting algo! Compare each element in the array and check if	7
Most Basic Scrting algo! Compare each element in the away and Check if are [j] > are [j+1] if so swap them! Overhually other each iteration the biggest	
eventually after each iteration the biggest	F.S.
element will reach to the end grow	
iterate again but this time an-1 time	
than 9-9 time, then 3 and so on	
Here's the Dry Run: - (will do later)	Was A
- but we know we have to the iterate	
if an array is already sorted are can	
check if any swapping is made or not in	8111
first ilocation. We can use a bool	
Check in loop (first loop) to see if	
any swabbing is required in next look	to the second
il any swap habbens we mark it as	
Jalse and will check again!	
Dry Run: Fox Input Togot 293951	
54321	
The street	
After 1st iteration:	- may
574.50 swap 5 with 4	1
	200
45321	
	- Contract
am prepared to go anywhere, provided it be forward. – David Livingstone	d

May 2022 S M T W T F S S M T W T F S 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	Week-18 (118-247)	THURSDAY 28
\$ (5>3) 10,	4 3 5 5 2 1	the selection
(572 1 to 572 1 to 572	4 3 2 5 1	-> Hence last element is placed will consider> this part only.
→ 3 2 1 2 1 3	45 11 23 14 11	
→ 1 2 3	45 Mence Sorlea	
Optimised Bubl-	ple sort will s	solve.
12345 is already	like:- No swapp Scrted.	ing made Attray
5, 1,2,3, iteration onl	4: - It will s	olve it in one
and in energy of the made. Hence	12 3 4 5 ut ilexation no it Il lower it	swapping is is time Complexity.

Ar	ril	1										20	22
71	-	OF S	W	T	F	S	S	M	T	W	T	F	5
5					1	2	3	4	5	6	1	8	9
10	11	12	13	14	15	16	17	18	19	20	21	22	23
M. S									•	•	•	•	

Week-18 (119-246)

Selection Scrt:
Selection . Sort: - 1.
Find the largest element! Swab it with end index element. Decrement & end index by 1. Therefore an doing it Boom!
- Swap it with end index element.
- Decrement at end mark by 1.
- Keep on doing it Boom!
it is to II tiliwarks
you can optimize it as well.
12 118/1/5/
1 P2/165 2000 15 16 18 18 18 18 18 18 18 18 18 18 18 18 18
Matinused Fullate and cold Solve.
123 U.S. U.S. Surabbing Avode Alecute in obsider of
not vi ti suloza llien ET -: H. E. C. I . ?
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2(1/12)
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whoold no swift the xx of 11 th sough slowing
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May 2022 S M T W T F S S M T W T F S 1 2 3 4 5 6 7		30
8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 · · ·	Week-18 (120-245)	SATURDAY OU APRIL
# Insertion S	1	The state of the s
	cn 4.	
→ Think that	first element is	sorted alxendu
-> Now take	Current element	$\overline{\Sigma} = Q_{XX} \overline{\Sigma} = \overline{\Sigma}$
> and an		sill point to element
just before	the current ele	
	Tall James L. C. Charles	A. A. A. A. A.
Now wh	ule (arr [7] > a	went ks j=0)
- P () () () ()	are Titiz = are	1 ac 1 co : af J
7.	<u> </u>	
Ipla lalatoria	7 . T	The state of the s
124	va [j+1] = cure	5>3 hes: -: to
1	return - rivet	
1eth Dxin	sun on Example	AD - 170h & 4 l
2011	sun on Elampi	<u>e: 54369</u>
	HASSELLY - TIETTER	UN COOL - OZ 10
1.01017/18	5 (4) /3	6 9
	Ti ti cu	rent = (1.
is y > crucrent?	les 1	cary = 1.
	5 5 8 6	? (at [7+1) = Sunday 01
J <o ends-<="" loop="" td=""><td>></td><td>are (17)</td></o>	>	are (17)
1 1 1 2	4 5 3 6 9	(arx [771] = current).
	1 Vo	1
1 >/current? (yes)	1	
	14 5 5 6 9	
ι	(0	24 127 SCULLOUIS VA

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001			May	2022 S S M T W T F S
U2 MONDAY			And all the second	1 2 3 4 5 6 7 14 15 16 17 18 19 20 21
MAY 2-0-2-2	Week-19 (122-24)	3)	8 9 10 11 12 13 22 23 24 25 26 27	28 29 30 31 · · · ·
		4000	11013	3 LIVL #-
Dry Run on Ex	ample:-	1 36	1	
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are TyJ > Gurrent	Yes:>	arrly	13 6	07
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- 1 × 6 1017	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	7 1 7	33161	G
- 30 150 and 12	1.] = Cluttent	1 3 99 1	1 0 1 0 1	
			Cuman	3
5>3 yes: → a		20 7:07	Curren	-16101
_ 3 > 3 yes. → W	cety+13= a	a 175	101313	
4>3 yes:- art	17+17 = au	[K]		1
4>3 yes:- are	[7+1] = ar	CIAI	(Q) u 5	6.9
The state of the s	5/10/2 7 / / / / / / / / / / / / / / / / / /			0 11
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	2[7+1] = C		3 456	19
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5 > 6 900 :-	3 2 3 3	D CO	· DADLER	T N
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u	ne											20	122
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U	21	48	29	30	•								



42-0-2-2 Week-19 (123-242) Wohi Angrezo Wala). 2 T.C = O (ag(n)