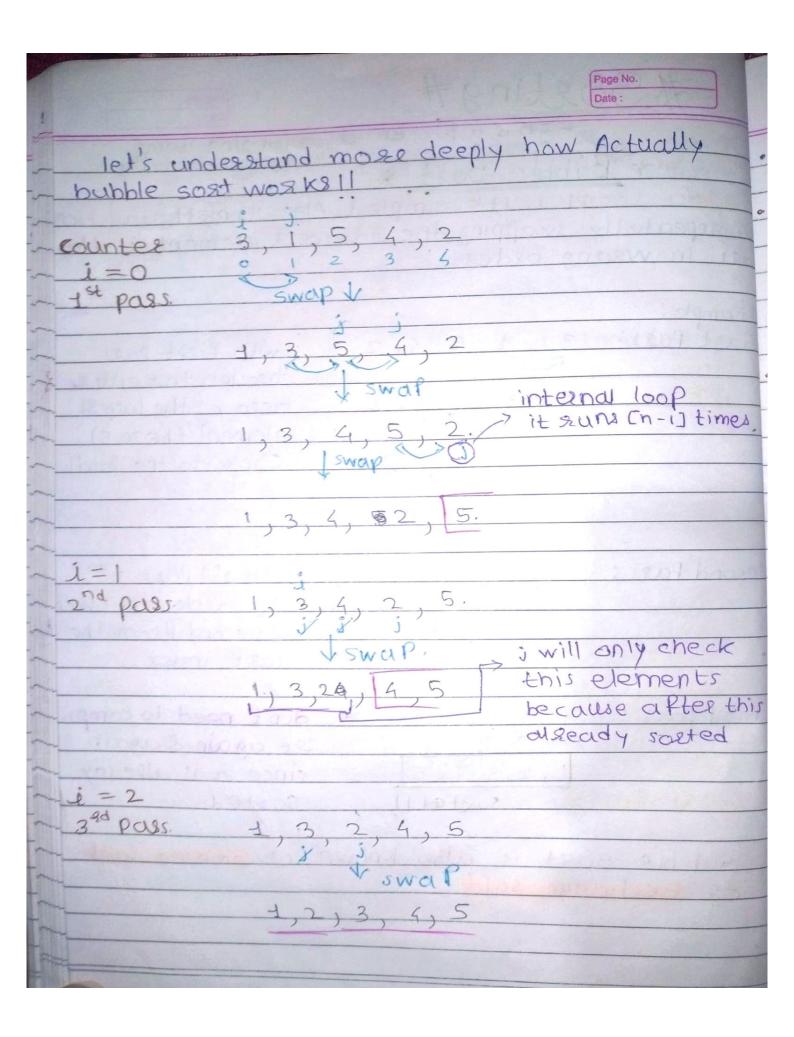
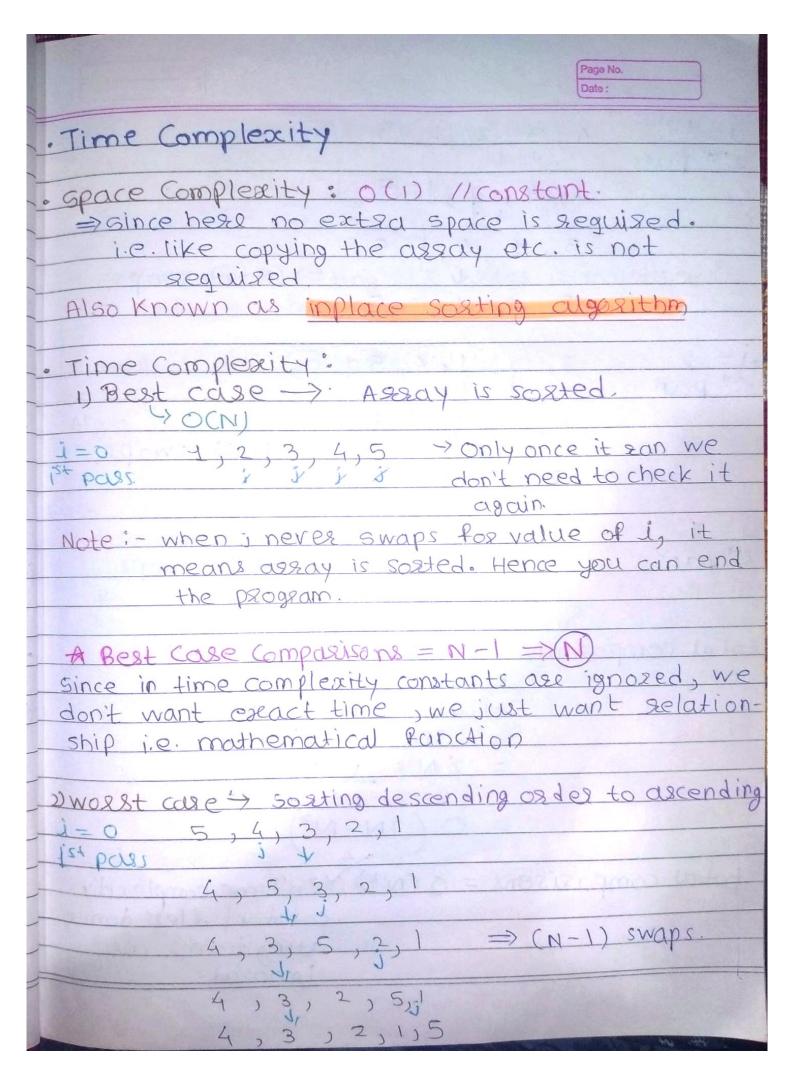
1	
	#502ting# Page No. Date:
	Date:
	- It is a process of agranging items systematically.
1	* Bubble Sort *
1	- It is the simplest Algorithm that works
	by seperatedly swapping the adjacent element if they
-	are in wrong order.
	all III would come.
	Township *
	Example: First Pass: 3, 1, 5, 4, 2 with first pass
1	through the entire
	1, 3, 5, 4, 2 cieray, the largest
	element (here 5)
	1, 3, 4, 5, 2 Came to the end
	1, 3, 4,26,5.
	Second Pass: 1,3,4,2,5- with 2nd Pass 2nd
	largest element comes
	1,3,2,4,5. cut second from the
	last index.
	Third pass: 1, 3, 2, 4,5 I don't need to compa-
	ge again & again
	1,2,3,4,5 since it is already
	sortalii sorted
_	
_	Bubble sost is also known as sinking sost
-	Or Exchange sort.
1	
1	
1	





	Page No. Date:	
i=1 4, 3, 2, 1, 5	MAD SHARE	
2nd pales 3 + 2 , 1 , 5	ad example	
$3,3,4,1,5$ $\Rightarrow (N-2)$	swaps	
3, 2, 1, 4, 5.	(00) 9/01	
$\frac{3}{3^{2d}}$ pass $\frac{3}{3}$, $\frac{1}{4}$, $\frac{4}{5}$	17 KOSII	
$\Rightarrow CN(-3)$ $\Rightarrow (N(-3))$	swaps,	
i = 3 2, 1, 3, 4,5 $i = 3$ $\Rightarrow (M-4)$	s waps.	
total compasisons = N-1+N-2+N-3+1	V-4	
=4N-(1+2+3+4)	risa ta s	
$= 4N - N^{2} + N$ $= O\left(\frac{7N - N^{2}}{2}\right)$		
19110269		

