		Date 16 Oct 2023 Page
		Day - 29
		Insertion Sort
0		
	=	Insertion Sort is like arranging cards.
	=	Insertion Sort is like arranging cards. When we play cards game and arrange the cards by checking every particular
		card.
	=1	In the same way, we arrange the
		elements in insertion sort.
		7 4 2 3 5 n elements
,		7 4 2 3 5 n elements
	(1-0	Round 1: 47 2 \$3 \$5 then
	(2-6)	R2: 2 4 7 3 35
1	(3-0)	R3: 2 3 4 7 5
	1	
lue	(4-0)	P4: 23 4 5 7 1
	TI ₀	shows that the elements before the
	In	is shows that the elements before the indexing are sarded inyou have to find the
		correct position of the current index element.
ul		20
	#	fan(i=1; i <n; fan(j="i;j" i++){="">0;j){</n;>
		if (ann G) (ann G) - 17 {
		Swap Carrej 7, am (j-17); 3
	1	else
		3 3 broak;
THE STATE OF		

Page Date _ Space Complexity: O(1) Time Complexity! i= 1 i= 2 e= h-1 j=1t01 j=2t01 j= n-1 to1 1 + 2 + ... + n-1 $\frac{h(h-1)}{2} = \frac{n^2 + b}{2}$ O(n2) - Worst Case -1 O(n), $O(n^2)$ \rightarrow Aug. Case