Date 13 Oct 2023 Day -26
Bubble Sont In this santing, we check the adjacen elements. ho, of nound = R1 R2 R3 toh RY Ex: fon (i= h-2; i=>=0; i++){ for (j=0; j<= i, j++) [

if (arr(j) \arr(j+1)]

swap(arr(j), arr(j+1)); 3

	Date Page
=	Time Complexity $i = n-2$ $j = 0 + 0 + n-2$
= = = = = = = = = = = = = = = = = = = =	$\frac{(n-1)+(n-2)+\ldots+1}{(h-1)h} = h^2-h$ $\frac{2}{2}$ $O(h^2) \rightarrow Warst Case$ $\frac{3paco Complexity}{(n-2)+\ldots+1} = 0(1)$
=1	when all the elements are sorted then we don't have to do the sumpping.
=1	So we will take another variable book 3 wapped = and if any swapping happened then we increase the value of swap.
21	After very fast iteration, we check the value of swapped, if it is equal to a then break the loop atherwise continue the an normal process of scenting. Best Casain
	Best Case: $O(n^2)$, $O(n^2)$