Selection - Sont:  The selection Nort  algorithm sonts an array by  finding the minimum element repeate  from unsonted part and putting it  at the beginning.  O 1 2 3 4  O 1 1 3 8 7  (i=0) 2nd pass:  O 1 3 8 7  (i=3) 4th pass:
(i=3) 3rd pass :- [0] 1   3   8   7

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*>	In first pass we had 4 possible .
۲۱۱	In second pass we had 3 possible
N)	comparison.  In third pass we had 2 possible comparison.
90>	In fourth pass we had only 1 possible comparison.
	Total possible camparison: 1+2+3+ + (n-1)
	= n(n-1) $= 2$
	= n <sup>2</sup> -sr (Constant and less  2 dominating term
	worst case " O(n2)
	18/5/5/5/5
*	It is not a stable sont.
*	Selection sont is not adaptive.
	means in sorted arrian we also need the same no of comparison.

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•	Algorithm:  Start with oth Endex.  Herate through the currented  fortion of the array, starting						
iii) Swap the min with current element.  iv> Increment the position of sorted portion by one.							
*	* Code implementation:						
	import java. util. *;  public class selection sort  int [] arr = (9,26,13,5,28,163;  Selection (arr);  Syso (Arrays. tostring (arr));  y  Static void selection (int[] arr)  for (int i=0; & (arr.length-1; i++)  int min = i;  for (int j=2+1; i (arr.length; i++)  if (arr[i] (arr.length)						
	$\gamma$						

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	int temp arr [min]	= an [min]; = an [r]; = temp;	and the said	9	
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		-2 modatame		F	
		die wals s			