	IDHSOA01
	- Selection sort is used to sort an array in the descending order. When does the worst case
	occur?
I _	Select one:
0	The array has several duplicated items.
0	The array is already sorted in the ascending order.
\odot	The array is already sorted in the descending order.
0	The first and the last items of the array are the same.
	IDHSOA02
	- Insertion sort is used to sort an array in the descending order. When does the best case occur?
_	Select one:
0	The array contains several zero items.
•	The array is already sorted in the descending order.
C	The array is already sorted in the ascending order.
0	The array has several duplicated items.
	IDHSOA04
	– Which of the following sorting algorithms has the minimum number of swap operations in general?
	Select one:
_	
U	Heap sort
•	Insertion sort
0	Quick sort
	Quick soft
0	Bubble sort
	IDHSOA05
	$- \\ Consider \\ a \\ modified \\ version \\ of \\ Merge \\ sort \\ where \\ the \\ input \\ array \\ is \\ partitioned \\ at \\ the \\ position \\ one-third \\$
	of the length N of the array. What is the recurrence of this algorithm?
	Select one:
О	T(N)=2T(2N/3)+O(N)
_	
•	T(N)=2T(N/3)+O(N)

0	T(N)=T(N/3)+T(2N/3)+O(N)
С	T(N)=T(N/2)+T(3N/2)+O(N)
	IDHSOA06
	- Which of the following sorting algorithms has the lowest worst case time complexity?
0	Select one: Quick sort
0	
	Bubble sort
0	Merge sort
0	Insertion sort
	YDYYGO A OF
	IDHSOA07
	- Consider an array A where the items are in the range from 1 to n^3. Which of the following sorting algorithms gives the best time efficiency when applied on A?
	Select one:
O	Radix sort
⊙	Counting sort
O	Quick sort
C	Heap sort