

Linear Search and Binary Search:									
<pre>1. Asymptotic average case time complexity of linear search algo is</pre>									
A. O(n) B. O(n/2) C. Both A & B D. None of the above									
Answer: A									
2. Linear Search is also called as									
A. Quadratic Search B. Sequential Search C. Random Search D. Periodic Search									
Answer: B									
3. In Linear Search after every iteration search space is reduced by A. (n/2) B. (n-1) C. (n-2) D. None of the above									
Answer: B									
4. In Binary Search after every iteration search space is reduced by									

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	(n-1)	
	(n-2) None of the above	
	None of the above	
Ans	swer: A	
5.		
Bi	nary Search is also called as	
Α.	Logarithmic Search	
1	Half-interval Search	
	Both A & B	
ען.	None of the above	
Ans	swer: C	
6.		
I _	ich of the following problem solvin	g technique used
in	binary search	
_	Greedy Approach	
	Simple Approach	
	Divide and Conquer Approach	
D.	Divide and Rule Approach	
Ans	swer: C	
7.		
Av	erage case time complexity of Binar	y Search is
	·	
l _A .	0(n/2)	
	0(n-1)	
	O(log n)	
D.	0(n^2)	
And	swer: C	
^!!:	JWCI . C	
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Sorting Algorithms

8.								
In	which	of t	the	following	sorting	algorithm	magni	tude
of	time o	comp	lexi	tv is same	e in	all poss	sible	cases.

- A. Ouick Sort
- **B. Selection Sort**
- C. Insertion Sort
- D. Bubble Sort

Answer: B

9.

Which of the following sorting algorithm is not inplace.

- A. Selection Sort
- B. Bubble Sort
- C. Ouick Sort
- D. Merge Sort

Answer: D

10.

Which of the following is an efficient sorting algorithm for smaller input array.

- A. Insertion Sort
- B. Quick Sort
- C. Bubble Sort
- D. Merge Sort

Answer: A

11.

Which of the following is an efficient sorting algorithm for larger input array.



- A. Insertion Sort
- B. Quick Sort
- C. Bubble Sort
- D. Merge Sort

Answer: B

12.

What is the worst case time complexity of a Quick Sort.

- A. 0(n log n)
- B. 0(n²)
- C. 0(n)
- D. None of the above

Answer: B

13.

Which of the following sorting algorithm do not follows divide-and-conquer stratergy.

- A. Ouick Sort
- B. Merge Sort
- C. Insertion Sort
- D. None of the above

Answer: C

14.

Which of the following sorting algorithm is also called as "Sinking Sort".

- A. Quick Sort
- B. Selection Sort
- C. Insertion Sort
- D. Bubble Sort

Answer: D



15.

In which of the follwing sorting algorithm elements which are at two consecutive positions gets compared for sorting.

- A. Quick Sort
- B. Selection Sort
- C. Bubble Sort
- D. Selection Sort

Answer: C

16.

Best case time complexity of merge sort algorithm is

- A. 0(log n)
- B. O(nlogn)
- $C. 0(n^2)$
- D. None of the above

Answer: B

17.

Which of the following sorting algorithm is an adaptive.

- A. Selection Sort
- B. Insertion Sort
- C. Bubble Sort
- D. All of the above

Answer: B