

Previous Year Very Short Questions of DAA (B-TECH computer science engineering 5th)

Describe a time when you felt proud of a family me...



Describe an item on which you spent more than ex...



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1. What is the time complexity of linear search?
2. Define algorithm
3. What is Fast Fourier Transform (FFT)?
4. Explain divide and conquer technique
5. Give the recurrence relation for the time complexity of merge sort algorithm.
6. Differentiate between exponential versus polynomial running time.
7. State the principle of optimality used in dynamic programming.
8. How is the accuracy of approximation algorithm measured?
9. Algorithm A performs $10n^2$ basic operations, and algorithm B performs $300 \log n$ basic operations. For what value of n does algorithm B start to show its better performance?
10. What do you mean by NP-complete?
11. What do you mean by Amortized Analysis?
12. What is Big 'Oh' notation?
13. Define direct recursive and indirect recursive algorithms.
14. What do you mean by time complexity and space complexity of an algorithm?
15. Define control abstraction
16. What are the features of dynamic programming?
17. Define explicit constraint
18. Define Branch-and-Bound method
19. What are the factors that influence the efficiency of the backtracking algorithm?
20. What is NP hard problem?
21. Show that for any real constants a and b , where $b > 0$, $(n + a)^b = \theta(nb)$
22. What is the time complexity of conventional matrix multiplication method and Strassen's matrix multiplication method?
23. What is the advantage of using merge-sort algorithm over quick-sort algorithm?
24. What are NP-complete problems? Give examples.



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27. What are the time complexities of pre-processing stage and matching stage of KnuthMorris-Pratt string matching algorithm?
28. What do you mean by polynomial time reduction?
29. What would be the running time of radix sort on an array of n integers in the range $0 \dots n^5 - 1$ when base-10 representation is used?
30. Define convex hull.

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