

GATE 2021 CS-1 Memory-Based Questions (Version 1) by CollegeDekho

Question	Question
There was a question of recursion	Find out the DFA for all strings ending with 0-1-1
which C library function invokes system function call ()? a. strlen b. exit c. sleep d. malloc -- MSQ	what is the maximum eigenvalues of 4*4 matrix with all diagonal elements are 0 and rest is 1?
array in increasing order and question asked which algorithm will take the least swapping.	There are 5 bags having identical sets of 10 distinct chocolate. one chocolate is drawn from each bag, probability to find at least 2 chocolate is identical..
There was a question related to Hamming Code	A graph G contain 8 Vertices and % faces. Find the number of Edges? - Answer 11
<p>True or False? - (A) The SLR (1) grammars are unambiguous and there are some unambiguous grammars that are not SLR (1)</p> <p>(B) There exist at most $O(n^3)$ algorithm to parse the CFG grammar set</p> <p align="center">Answer - Both are True</p>	<p>Consider 3 processes A, B, C all arrived at Zero time, with respective burst time 10, 20, 16. The average waiting time for non-preemptive SJF S -</p> <p align="center">Answer 12</p>
<p>Main Memory Size 2^{32}</p> <p>Direct Mapped Cache of Size 32 KB</p> <p>Block Size 64 Bytes</p> <p>Tag Length =?</p> <p align="center">Answer - 17 BITS</p>	<p>G is Group with order 8</p> <p>H is sub group of G</p> <p>$1 < H < 8$</p> <p>Then</p> <p>(A) - G is Cyclic and H is also Cyclic</p> <p>(B) - G is not Cyclic but H is Cyclic</p> <p>(C) - G is never Cyclic also H is not Cyclic</p> <p>(D) - 4 is Cyclic but H is not Cyclic</p> <p align="center">Answer - (B)</p>
<p>The array is already sorted. And options are insertion, merge, selection</p> <p align="center">Answer - Insertion</p>	<p>5 Stages (Pipelining) and 5 Delays 150, 140, 130, 160, 140. Time is taken for 100 instructions? -</p> <p align="center">Answer 16640</p>

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