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- Q.4 (a) For the following chain of matrices find the order of parenthesization for the optimal chain multiplication (15,5,10,20,25)
 - (b) Solve the following Knapsack Problem using greedy method. Number of items = 5, 07 knapsack capacity W = 100, weight vector = {50, 40, 30, 20, 10} and profit vector = {1, 2, 3, 4, 5}

OR

Q.4 (a) Following are the details of various jobs to be scheduled on multiple processors 07 such that no two processes execute at the same on the same processor.

Jobs	J_1	J ₂	J ₃	J_4	J ₅	J ₆	J ₇
Start time	0	3	4	9	7	1	6
Finish time	2	7	7	11	10	5	8



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Firstranker's choice Show schedule of theswiving FirstRanker.com approach.

- (b) Working modulo q = 11. How many spurious hits does the Rabin-Karp matcher encounter in the text T = 3141592653589793 when looking for the pattern P =26?
- Q.5 (a) Explain: Acyclic Directed Graph, Articulation Point, Dense Graph, Breadth First Search Traversal, And Depth First Search Traversal.
 - (b) Explain in Brief: P-Problem, NP-Problem, Polynomial reduction.

OR

- Q.5 (a) Explain Backtracking Method. What is N-Queens Problem? Give solution of 8 07 Queens Problem using Backtracking Method.
 - (b) Show the comparisons the naive string matcher makes for the pattern P=0001 in 07 the text T=000010001010001

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