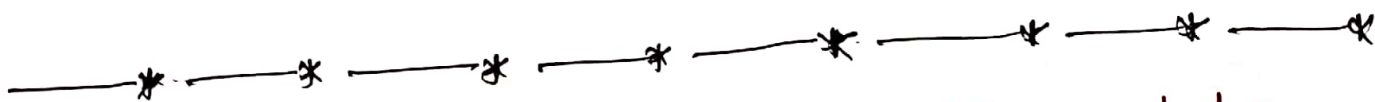1) Consider the 25×4 matrix array. Suppose base-address = 200 and there are W = 4 words per memory cell. Calculate the effective address of location [12, 3]

    i) Using row major

    ii) Using column major.

2) Write an algorithm to count number of node in a Linked List.

3) What are the condition for Underflow and Overflow in Linked List?

4) Define Ackermans function with example.

5) Convert of the given infix notation into prefix form.

    a) $(A + B \uparrow D) / (E - F) + G$

6) Convert the given infix notation into postfix notation using stack.

    → $A * (B + D) / E - F * (G + H / K)$

7) List out the application of stack & Queue.

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Deadline : 30/09/19.