

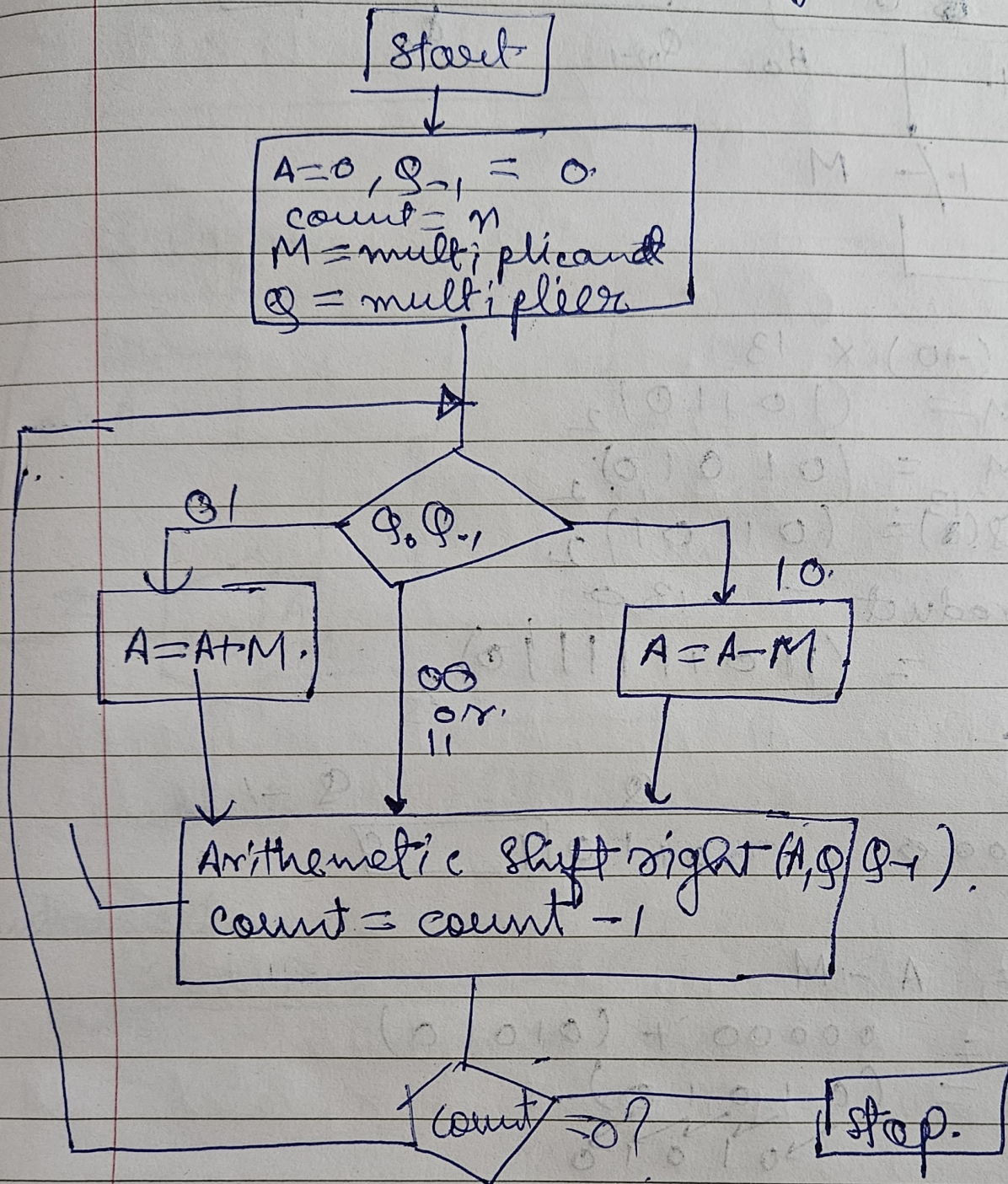
Booth's Algorithm

Multiplication simplicity

DOMS

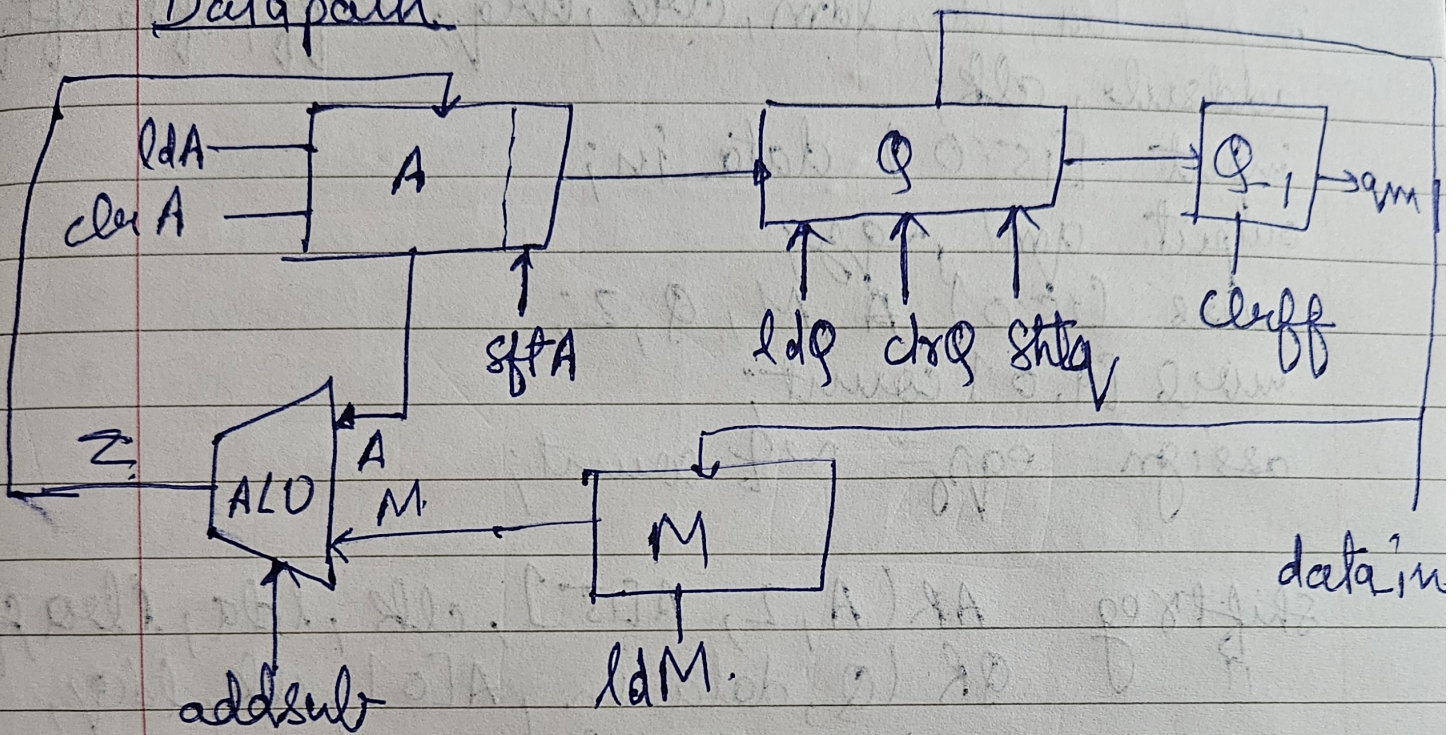
Page No.

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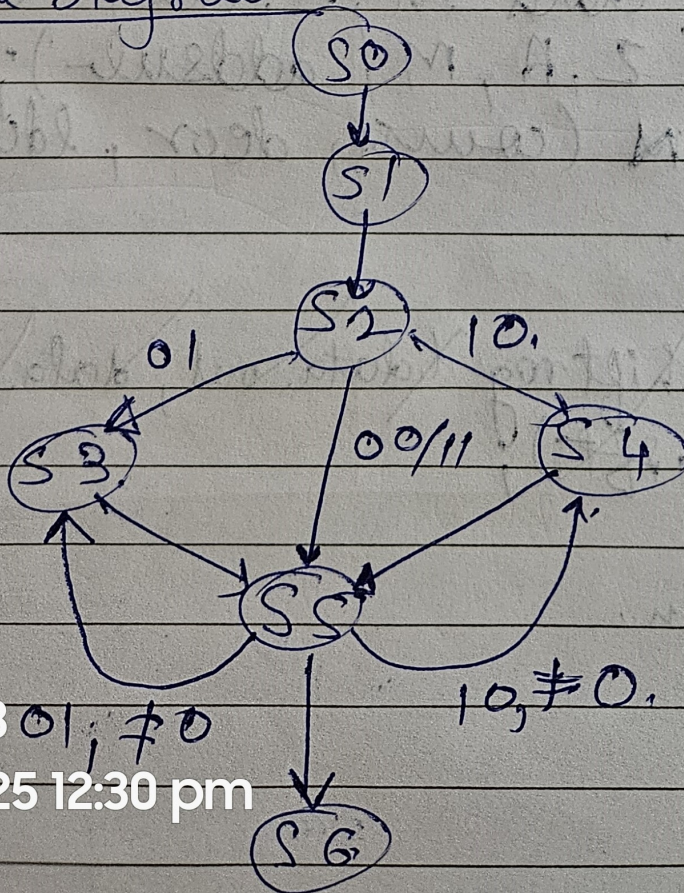
★ n addition and n shift operation
00, 11 \rightarrow only shift
01 \rightarrow add then shift
10 \rightarrow subtract then shift

Data path



Control path

State Diagram



Galaxy S23 01, ≠ 0
29 April 2025 12:30 pm