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Nd.edu Assume Want To Shift Left By  $K$ ,  $0 \leq K \leq N-1$  ( $N = 2^n$ )  
 $K$  Expressible As  $N$ -bit Number:  $-K = K_{n-1}2^{n-1} + K_{n-2}2^{n-2} + \dots + K_12^1 + K_0$ ,  $K_i \in \{0, 1\}$   
Barrel Shifter: Construct From  $N$  Levels Of  $N/2$ -in Multiplexors - When  
Level  $i$  Either Shifts Last Level By  $2^{i-1}$  Or Pass Unchanged  
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