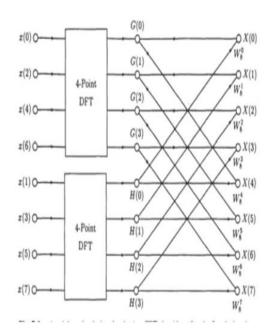
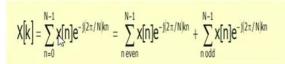
## REC





Substitute variables n=2r for n even and n=2r+1 for odd

$$X[k] = \sum_{r=0}^{N/2-1} x[2r]W_N^{2rk} + \sum_{r=0}^{N/2-1} x[2r+1]W_N^{(2r+1)k}$$

$$= \sum_{r=0}^{N/2-1} x[2r]W_{N/2}^{rk} + W_N^k \sum_{r=0}^{N/2-1} x[2r+1]W_{N/2}^{rk}$$

$$= G[k] + W_N^k H[k]$$

G[k] and H[k] are the N/2-point DFT's of each subsequence



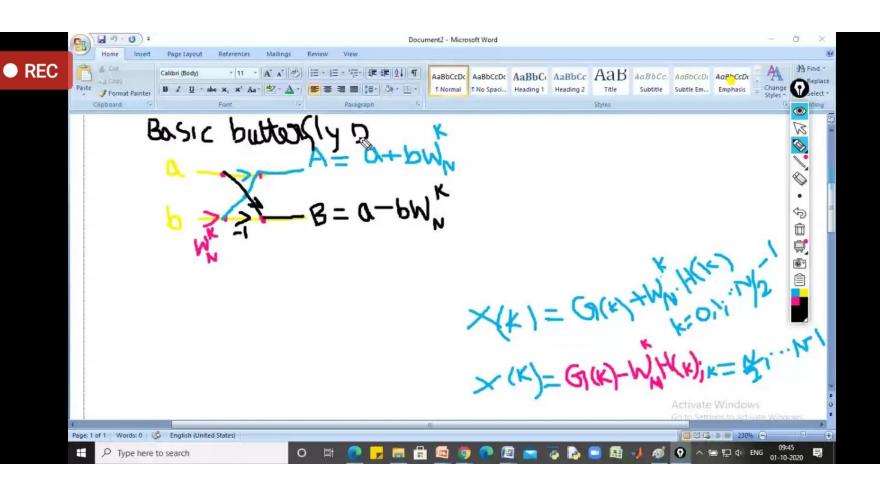
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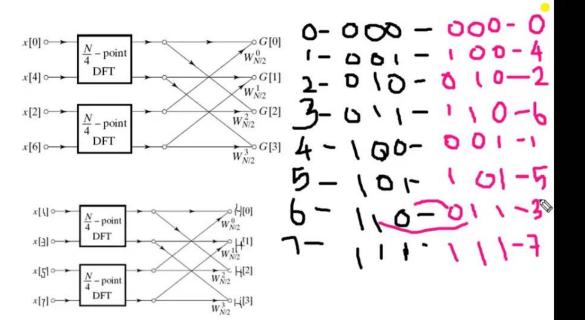
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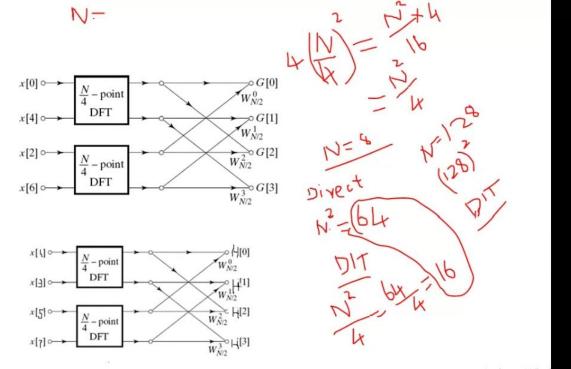






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