

Analog to Digital Converter (9A)

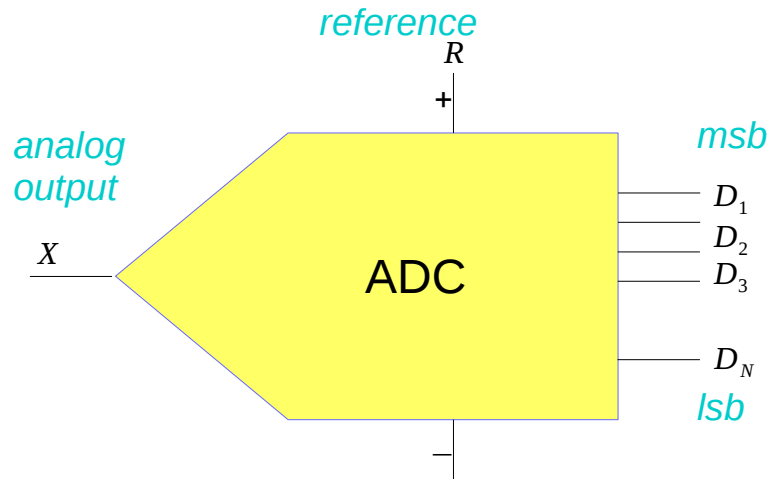
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Make a binary string



$$X_Q = R(D_1 2^{-1} + D_2 2^{-2} + \dots + D_N 2^{-N})$$

$$\mathbf{D} = [0, 0, \dots, 0]$$

$$\mathbf{D} = [0, 0, \dots, 1]$$

$$\mathbf{D} = [1, 0, \dots, 0]$$

$$\mathbf{D} = [1, 1, \dots, 1]$$

References

- [1] <http://en.wikipedia.org/>
- [2] <http://planetmath.org/>
- [3] M.L. Boas, "Mathematical Methods in the Physical Sciences"