ASSIGNMENT2 (Discrete Fourier Transform)

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1. For a given sequence x (n) = {1 2 3 4}, find 4-point Discrete Fourier Transform and find Inverse Discrete Fourier Transform.
2. Find 8-point DFT of the sequence x (n) = {1 2 3 4}.
3. For a 4-point DFT sequence

$$x(n) = \begin{cases} 1\,, & 0 \le n \le 3 \\ 0\,, & otherwise \end{cases}$$

Plot its magnitude and phase spectrum.