

## 2D Inverse Discrete Fourier Transform Tutorial Exercise

Calculate the inverse 2D DFT of the sequence  $X(k_1, k_2)$ , of dimensions  $N_1 \times N_2$  for which holds:

$$X(k_1, k_2) = \begin{cases} 1, & 0 \leq k_1 < M_1, 0 \leq k_2 < M_2 \\ 0, & \text{otherwise} \end{cases}$$