

$f(a), f(b)$ & $f(c)$ are described in the Figure 1. Where $0 \leq a, b, c \leq 1$. Consider three constant x, y, z , such that $0 \leq x, y, z \leq 1$. Then find the following $f(d)$ via FFT operation.

$f(d) = xf(a) * yf(b) * zf(c)$, where $*$ represent the convolutional operation.

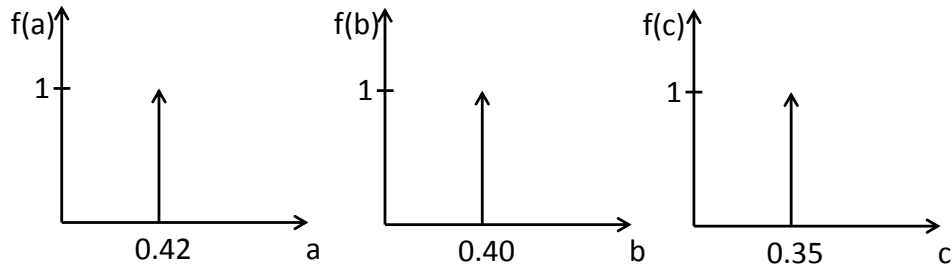


Figure 1

Also I need the way to implement this in Matlab.