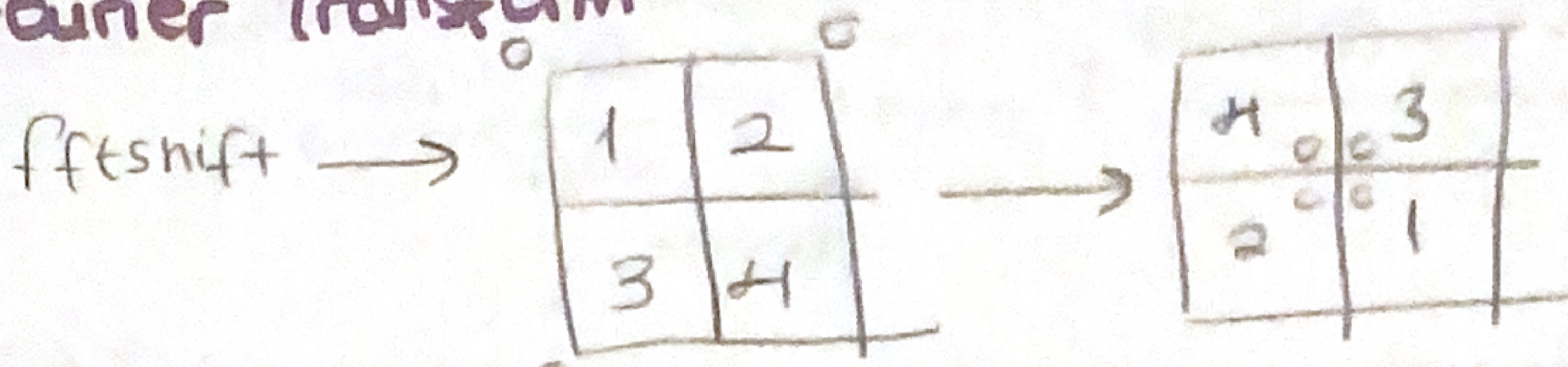


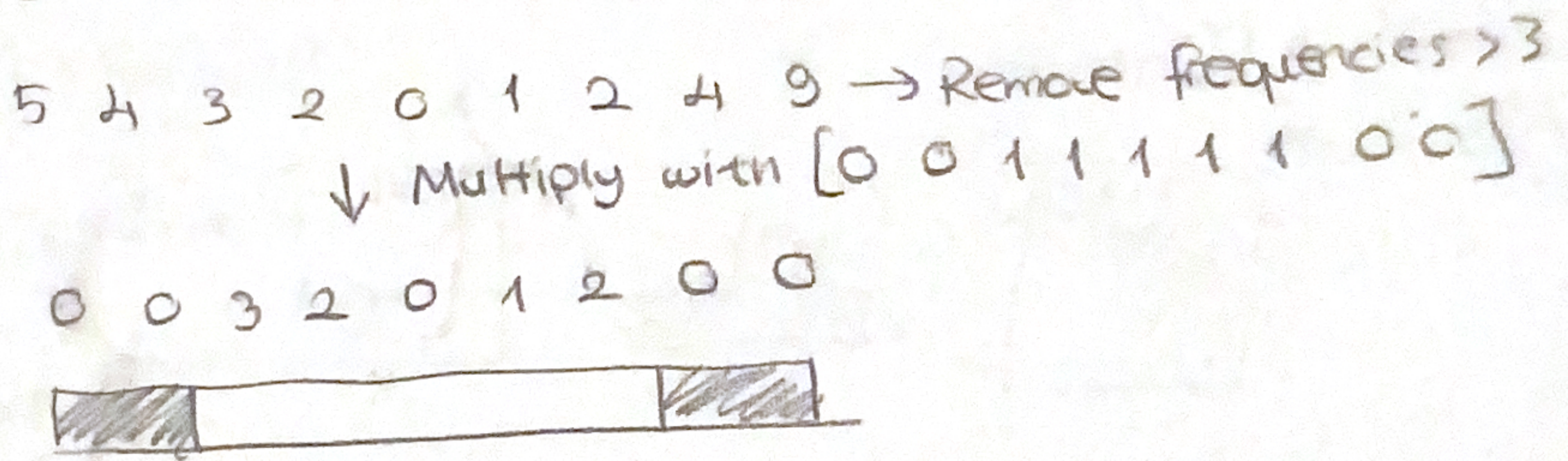
Fourier Transform



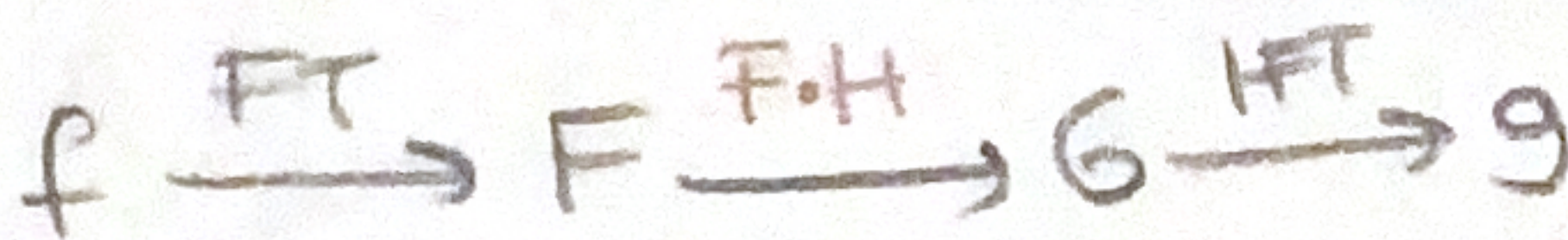
\downarrow
we want to put zeros in the middle

\hookrightarrow what does zero freq mean? zero change.
High freq \rightarrow high change.

Smooth by removing high frequency. (details of the image)
If we want to remove details (smooth) we remove high frequencies.



With convolution theorem $f * h \leftrightarrow F \cdot H$
 spatial domain \leftrightarrow freq domain



\hookrightarrow with FT we can do filtering in freq domain (better for isolating frequencies)

In 2D if we have

