Exercise: Basis Function and quantization (b)ii) Q similar and difference Solution

Similarity; both basis functions have increasing horizontal, vertical and dia gonal frequencies differency: the new schene uses 4x4 pct that consists of 16 different types of basis functions where the baseline JPEq uses ex8 DCT that consists of 64 different types of basis furetrue cill quantization table

Solution Q = \[ \frac{70203040}{20304050} \]
\[ \lambda = \frac{70203040}{304050} \]
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\[ \lambda = \frac{70203040}{304050} \]

The quantization table should be exquish increasing step size in the horizontal

vertical and diagonal direction.

This is reduce quantization errors

for the DC and low Ac coefficients

as their DCT values are large

and human are more sensitione

to error distorting in them