## CSE 573: Introduction to Computer Vision and Image Processing PROJECT 1

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C) For a M\*N image and P\*Q filter, the complexity for calculating the value for each pixel in 2D convolution is O(PQ) and 1D convolution is O(P+Q) and so the overall complexity will be O(MNPQ) for 2D convolution and O(MN(P+Q)) for 1D convolution.

2.







