***IMAGE COMPRESSION ALGORITHM***

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***INTRODUCTION:***

*Because of the explosively increasing information of images in various locations and internet , image compression technique has become very important . The basic idea of image compression is to reduce data correlation using various algorithms . The data is usually in time (spatial) domain , it is transformed into the frequency domain . In frequency domain we can compress the image to lesser size without changing the view to the user . The principles behind compression are spatial redundancy , spectral redundancy , psycho – visual redundancy . The basic steps in image compression are image input , reducing correlation between pixels , discrete cosine transform(DCT) , quantization , zigzag , run length encoding(RLE) , Huffman coding . The compressed image is decompressed by the following the same steps in inverse order i.e inverse Huffman coding , run length decoding(RLD) , inverse zigzag , inverse quantization , inverse DCT , reconstruction .*