Barcode Challenge

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BPS: 0.783





1st Technique for Barcode columns, exploit black and white patterns and knowing the structure we calculate the first different row and only encode the second line, the last and some margins.



2nd Technique it's for words in the barcode, we tried Huffman first and after success, aiming to get better bps, we implemented RLE, which had the most compressed ratio in this scenario



Finally, we achieved a lossless compressor and the decoder that fully reverse the compression process. Also achieves a data rate below 1bps for every image.