


```

    max_rep = max([maxCount, currentCount]);
end

function rle = rle_encode_bitstream(bitstream,bit_len)
    % Initialize variables
    rle = [];
    current = bitstream(1);
    count = 1;

    % Loop through the bitstream
    for i = 2:length(bitstream)
        if bitstream(i) == current
            % If the current bit is the same as the previous one, increment
count
            count = count + 1;
        else
            % If the current bit is different, add the previous bit and its
count to the output
            rle = [rle dec2bin(count,bit_len) num2str(current)];
            current = bitstream(i);
            count = 1;
        end
    end

    % Add the last bit and its count to the output
    rle = [rle dec2bin(count,bit_len)];
    rle = [rle num2str(current)];
end

```