

[illegible]

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% % Manipulate the length of the string
% lenStr2 = length(str2);
% lines = lenStr2/30; % arbitrary number that looked good for max width
% % Round the sequence
% ceilLines = ceil(lines);
% flrLines = floor(lines);

% %
% %
% % Truncate sequence into 30 bp shorter sequences
% %
% %

% % If seq chunk is less than 30, run extension to avoid range issues
% extension = lenStr2 - 30*flrLines; % Find remainder of dividing by 30
% if (extension ~= 0)
%     jlastLast = 30*flrLines + 1; % find start of last 30 base chunk
%     cleanExtStr2 = str2(jlastLast:(flrLines*30 + extension)); % store it
% else
%     cleanExtStr2 = ''; % empty second header is divisible in 30 base chunks
% end

% % If seq chunk is = to 30, run standard analysis
% if flrLines >= 1 % Check to see if the sequence is longer than 30 characters
%     jlast = 1; % initialize counter variable
%     for i=1:flrLines
%         % For each 30 base chunk (i)
%         tempStr2 = str2(jlast:i*30); % length(tempStr2) % for testing
%         cleanStr2(i, :) = tempStr2; % save short sequence as new line
%         jlast = jlast + 30; % shift to next 30 base string
%     end
% else % If not > 30 characters, just display the extension sequence
%     cleanStr2 = cleanExtStr2; % Swap short sequence to first header
%     cleanExtStr2 = ''; % then empty second header
% end
% end

% Display original string
disp([13 'Given string:' 13])
disp(cleanStr1)
if length(cleanExtStr1) ~= 0
    disp(cleanExtStr1)
end

% Display output of string manipulation
disp([13 'The reverse complement is:' 13])
disp(cleanStr2)
if length(cleanExtStr2) ~= 0
    disp(cleanExtStr2)
end

return % end
end

```