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function [avg_vector output] = fixed_partition_time_series(y, num_sequences)

num_rows = size(y,2);
temp_file = y;
sequence_length = floor(num_rows / num_sequences);
length = sequence_length*num_sequences;

temp_file(length + 1 : num_rows) = []; %removes excess rows
output = temp_file; %creates a wave matrix for the output of the algorithm

for j = 1 : num_sequences %calculates the average over each of the i sequences

    rows = (j-1)*sequence_length + 1 : j*sequence_length;
    avg_vector(j) = mean(temp_file(rows)); %takes the average over the rows
    output(rows) = avg_vector(j); %stores the average value in the output

endfor

endfunction

```