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function [weight_vector] = mean_normalization_BlackTree(dataset,N)

for i = 1 : N

    num_digits_vector(i) = spec_log_BlackTree(mean(abs(dataset(:,i))))/log2(10);

endfor

mean_num_digits = mean(num_digits_vector);

for i = 1 : N

    x = mean_num_digits - num_digits_vector(i);
    weight_vector(i) = 10^x;

endfor

weight_vector(N+1) = 1; %the classifier dimensions

endfunction
```