



Lab 2 Task 2

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discussion posted a day ago by [carlos_sv](#)

I use reshape and sum. Solution in two lines.
However I lost a lot of time because I was not squaring the numbers correctly.

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3 responses

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rocket

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a day ago



x is longer than what we wanted. How do you discard the extra elements in vector x?

You're given the frame length 256, you're also given the number of frames thus you can get the total number of required samples. In other word how many elements of of vector **x** you require. What next?



Use indexing, all you need to know, with examples are here.

<http://uk.mathworks.com/company/newsletters/articles/matrix-indexing-in-matlab.html>

Far less work than loops, which seem to be the goto solution of choice. The matlab help pages are concise with plenty of examples.

Throw in

<http://uk.mathworks.com/help/matlab/ref/reshape.htm>

and

<http://uk.mathworks.com/help/matlab/ref/sum.html>

and you're home and dry, with not a loop in sight. All the other information needed to complete this task is in the lab instructions.

Remember, to square the *elements* of matrix **A** (Element-wise square) ,
write **A.^2**

posted about 10 hours ago by [aredirl](#)

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WordyAllen

1 Vote



a day ago



indexing makes code more mathy and less loopy.
use it liberally

KarenWest

0 Votes



about 9 hours ago



Does anyone know what I'm doing incorrectly when summing the squares and dividing by the frame length? My power is coming out incorrectly. Here is my code snippet.

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```

% % % % Revise the following code % %
% %
num = num_frames * frame_length;
x_reshape = x(1:num);
y_framed = reshape(x_reshape,
[frame_length, num_frames]);
%power of a signal is the sum of
squares of its samples divided by the
signal length
frame_power = [];
for frameNum = 1:num_frames,
    value = y_framed(frameNum);
    sqrYFrame = value.^2;
    sumSqrYFrame = sum(sqrYFrame);
    frameNumPower = sumSqrYFrame /
frame_length;
    frame_power = [frame_power
frameNumPower];
end

% % % % Do not change the code below %
% % %

```

This is not returning what you expect - I assume you want the entire frame: ...

```
value = y_framed(frameNum)
```

Karen - please do not post code for the labs - I remind you of the honor code.

Please delete your post.

posted about 8 hours ago by [PeterB001](#)

Sure - I'll delete the post - it's incorrect code, so I did not think that was a problem. ...

posted 2 minutes ago by [KarenWest](#)

Oh, and thank you for your response. ...

posted 2 minutes ago by [KarenWest](#)

Where is the delete button for posts? ...

posted less than a minute ago by [KarenWest](#)

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