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★ Course / Week 1: Vectors in Linear Alg... / 1.5 LAFF Software Package Development: V...

()

1.5.5 An Inner Product Routine (dot)

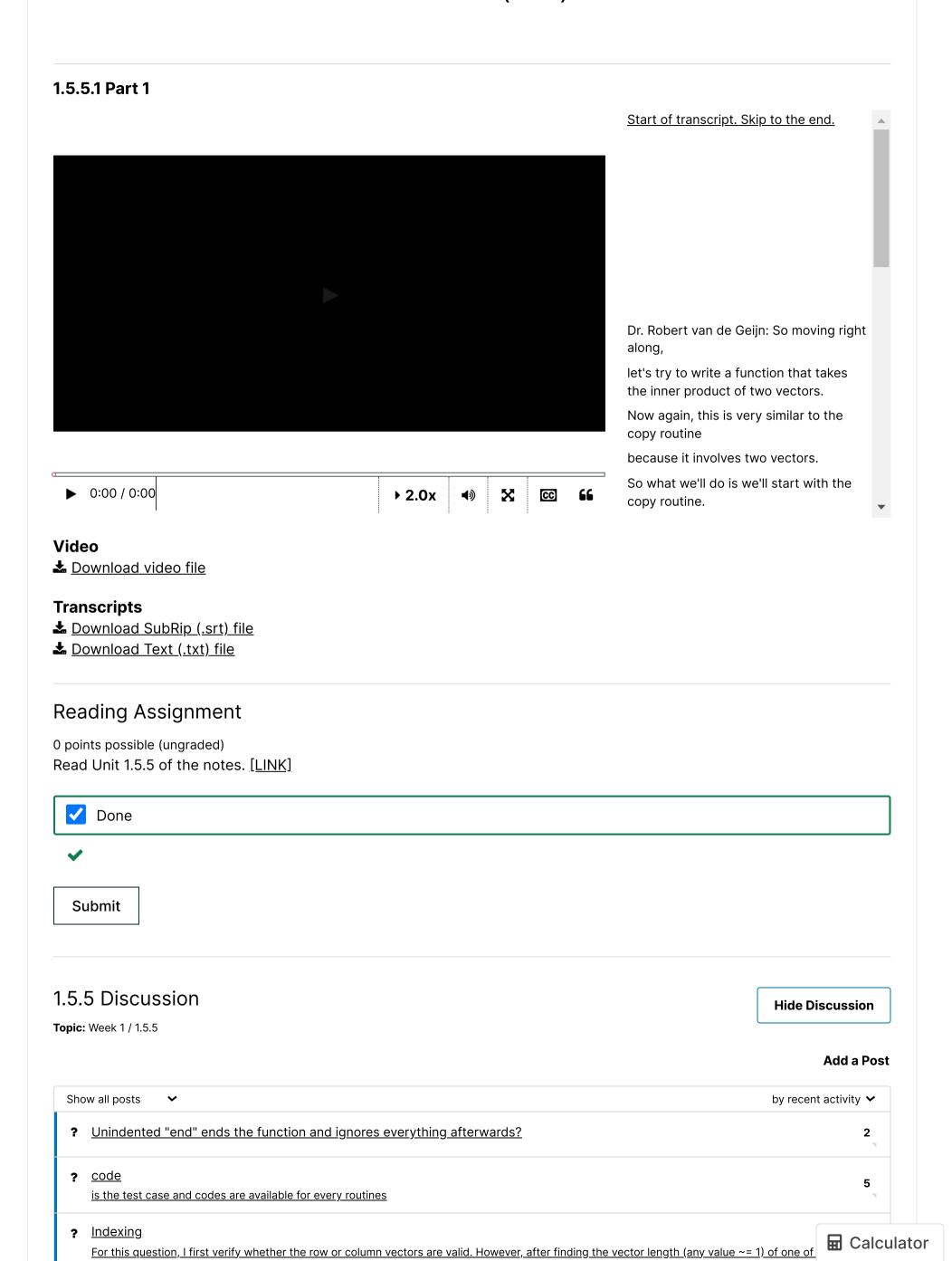
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■ Calculator

Week 1 due Oct 5, 2023 03:12 IST Completed

1.5.5 An Inner Product Routine (dot)



? Programming

Hi! Could you please explain why in the code should be write alpha = alpha + x(i,1) * y(i,1); In my understanding of what a simple dot product is...

Homework 1.5.5.1

1/1 point (graded)

Implement the function laff_dot that computes the dot product of vectors x and y. The function is defined as

function [alpha] = laff_dot(x, y)

where

- x and y must each be either an $n \times 1$ array (column vector) or a $1 \times n$ array (row vector);
- If x and/or y are not vectors or if the size of (row or column) vector x does not match the size of (row or column) vector y, the output should be 'FAILED'.

Check your implementation with the script in LAFF-2.0xM/Programming/Week01/test_dot.m.



Done / Skip



See the video below and the routine in the file LAFF-2.0xM/Programming/laff/vecvec/laff_dot.m .

Here is a solution: laff_dot.m.

Submit

Answers are displayed within the problem

1.5.5.1 Part 2 (Answer)



0:00 / 0:00 ▶ **2.0**x ◀

Start of transcript. Skip to the end.

Robert van de Geijn: OK, so we're back.

And let's see what we need to do.

Well, we are already checking whether x and y are row and/or column vectors,

so let's leave that alone.

But we do need to check that alpha is actually scalar.

But wait a minute, alpha is actually an output,

Video

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