CSCE 121 - Introduction to Program Design and Concepts

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Fall 2019 - 09/26

Arrays as function parameters

a. Write a function that has as parameter two arrays u and v of doubles with n elements, and returns the sum

$$u[0] * v[0] + u[1] * v[1] + u[2] * v[2] + \cdots + u[n-1] * v[n-1]$$

b. Write a program that inputs 0 < m < 100 and a matrix $A_{m \times m}$ and prints the matrix A^2 .

Arrays

Write a function that has as parameters $0 < n_1 < 100$ and $0 < n_2 < 100$ and two arrays u and v of integer numbers in increasing order with resp. n_1 and n_2 elements, and print the elements of the arrays in increasing order.

Example: For $n_1 = 5$, $n_2 = 3$ and the arrays

$$u = -23$$
 12 24 25 31 e $v = 15$ 25 30

the function should print:



Arrays

Write a bool function that has as parameters two C-style strings, text and word and returns true if the word appears in the text.

Example: For the text

everyone is a moon, and has a dark side which he never shows to anybody.

and the word everybody the function returns false.

Arrays

Write a program that has as input 0 < n < 1000 and a list of n integer numbers and print, for each number, how many times it occurs.

Example: For n = 8 and the sequence

$$-1$$
 3 0 1 0 -1 2 -1

you should print:

- -1 appears 3 times
- 3 appears 1 times
- 0 appears 2 times
- 1 appears 1 times
- 2 appears 1 times