

Series N°6: While-end Loop in MATLAB



Excercise N°1

Using **while-end loop**, write a program that calculate the multiplication of two vectors **N** and **M**.

$$N = \{i \quad j \quad h\}, M = \{o \quad p \quad q\}^T.$$

Excercise N°2

Using **while-end loop**, write a program that able to calculate the sum of two matrices **C** and **S** with dimension 3x3.

Excercise N°3

Using **while-end loop**, write a program that calculate the transpose of any given matrices.

Excercise N°4

Using **while-end loop**, write a program that able to calculate the sum of three matrices **C**, **S** and **T** with dimension nxn.

Excercise N°5

Using **while-end loop**, write a program that capable to calculate the sum of

$$S = 5+10+15+20+\dots+70.$$

Excercise N°6

Using **while-end loop**, write a program that able to calculate the multiplication of two matrices **C** and **S** with dimension 3x3.

Excercise N°7

Using **while-end loop**, write a program that capable to replace “0” in the diagonal in any given matrix.