



## Test N°6: For-end Loop in MATLAB



### Exercise N°1

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

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

### Exercise N°2

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

### Exercise N°3

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

### Exercise N°4

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

### Exercise N°5

Using **for-end loop**, write a program that capable to calculate the sum of **S** = 5+10+15+20+...+70.

### Exercise N°6

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

### Exercise N°7

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