Numerical Analysis and Optimization Homework Project 1

This assignment is done using the Julia programming language. To easy the task, we load Julia's linear algebra standard library:

```
1 using LinearAlgebra
```

Problem 1

Here we define the function lufact that takes as input a squatre matrix and compute the non-pivoted LU factorization and its grow factor:

lufact (generic function with 1 method)