

## utils.py:

**Boolean**(*success*), **String**(*err\_msg*) : send\_file(*socket, file\_descriptor, option*)

**Boolean**(*success*), **String**(*err\_msg*) : receive\_file(*socket, file\_descriptor, first\_data\_blk, option*)

**Integer** (*time\_stamp*) : start\_timer()

**Boolean**(*time\_is\_out*): is\_time\_out( *time\_stamp, timer\_description*)

## client.py: (*pseudo code*)

parse input

send request

open corrects ports, file descriptors

send\_file or receive\_file

handle error if any

close everything

## server.py: (*pseudo code*)

start listening

loop:

open correct ports, file descriptors

send\_file or receive\_file

handle error if any

close files / correct ports

## paquet.py:

**enum** OP\_CODE

**enum** ERR\_CODE

**Paquet** : decode\_paquet( *BinaryString* )

**BinaryString** : encode\_paquet( *Paquet* )

**class** DataPaquet

    \_op\_code

    \_blk\_nb

    \_data

**class** ErrorPaquet

    \_op\_code

    \_err\_code

    \_err\_msg

**class** AckPaquet

    \_op\_code

    \_blk\_nb

**class** RequestPaquet

    \_op\_code

    \_filename

    \_mode