Bouchfa vs Poms

```
First let's found pipes inside
                                                        Handling Quotes
quotes and replace them with
                                                          (Pipes Inside
                                                                                                                       $ls>a | cat<<'lim' | cat << lom | echo "I'$USER | $HOME"
 -1 in ordre to prevent them
                                                              Quotes)
      from spliting
As you know bash can handle
                                                                                                                  $ls > a | cat << 'lim' | cat << lom | echo "I'$USER �� $HOME"
                                                            Input Formating
 attached arguments so we've
decided to add spaces after these
operators (Heredoc, append, red
      in and out, pipes)
                                                                                                                                               $ls > a
                                                                                                                                            $cat << 'lim'
                                                              Spliting With Pipes
                                                                                                                                            $cat << lom</pre>
                                                                                                                                     $echo "I'$USER | $HOME"
Simply spliting with pipes
                                                                                                                                               $ls > a
                                                                    Handling Quotes
Let's find spaces in quotes
                                                                                                                                            $cat << 'lim'
 and replace them with -1 so
                                                                     (Spaces Inside
                                                                                                                                            $cat << lom</pre>
      they don't split
                                                                         Quotes)
                                                                                                                                  $echo "I'$USER�|�$HOME"
                                                                                                                                 ls
                                                                                                                                                                     ls == Command
                                                                                                                                                                      > == red_out
                                                                                                                                 a
                                                                                                                                                                       a == outfile
                                                                     Spliting With Spaces
                                                                                                                                 cat
Simply spliting with space
                                                                                                                                                                     cat = command
                                                                                                                                 <<
                                                                                                                                                                     << == here_doc
                                                                                                                                'lim'
                                                                                                                                                                    'lim' == delimiter
                                                                                                                                cat
                                                                                                                                                                     cat == command
                                                                                                                                 <<
                                                                                                                                                                     << == here_doc
                                                                                                                                lom
                                                                            Input Analyse
  While splitting with space
                                                                                                                                                                     lom == delimiter
                                                                                                                               echo
  define each token types
                                                                          (Set Tokens Type)
                                                                                                                                                                    echo == command
                                                                                                                      "I'$USER�|�$HOME"
                                                                                                                                                              "I'$USER | $HOME" == option
                                                                                                                                               red_in = 0
                                                                                                                                               red_out = 1
                                                                                                                                               here_do = 2
                                                                                                                                                 app = 0
Counting tokens based on their types
                                                                                                                                             redirections = 1
                                                                                Count Tokens
                                                                                                                                              delimiter = 2
                                                                                                                                                 cmd = 4
                                                                                                                                                option 1
                                                                                                                                                total = 11
      Checking Erros
  - if there's nothing in piplines
     - if there's no delimiter
 - if there's no output file in red out
   - if there's no appended file to
        be redirected
                                                                                                                                    Unfortunately There's no errors
                                                                                Check Parse Errors
   - if there's no input file to be
       readead from
                                                                                                                                             command = "ls"
                                                                                                                                        delimiter = {"lim", "lom"
 Assing each token with his
                                                                                                                                      argv = {""I'$USER | $HOME""}
                                                                                        Fill Tokens
     appropriate args
                                                                                                                                       **redirections = {"a", ">"};
                                                                                    Execution
```