## Homework Assignment 7

Due Date: 18:30, June 9, 2016

## 1 Problem 1

In this homework, you are asked to design linux-shell-like systems. First, you need to read file which has few command lines (<10), there are three main command **cat**, **removetag and exit** to be implement. In addition, there are two Output Redirection operators (>)( $\uparrow$ )
Three commands instruction as follows:

cat: output on the screen

removetag : remove punctuation( =+,.\"!-;() )

exit: end of program

Two standard output operators instructions

OutputName: output to be saved in the file (the content saved before will be cleared)

N: feed the output to next N command line as input

## 1.1 Speccification & Example

cat HellowWorld.txt

How to read file

./hw7 input\_file #int main(int argc,char argv[])

• Example of reading a command line and how to output (on the screen or file)

#read from command line

```
-> output : screen #this line just explanation ,not output on the screen % cat HellowWorld.txt "hellow world".
```

removetag HellowWorld.txt

-> output: screen

% removetag HellowWorld.txt

```
removetag HellowWorld.txt > result.txt #">" means write to the result.txt
```

->output: screen and file

% removetag HellowWorld.txt > result.txt

->result.txt: hellow world

ctt HellowWorld.txt

->output: screen

% ctt HellowWorld.txt

```
HellowWorld.txt |1
                           # This pipe will pipe stdout to next command.
                           # unknown command, process number is not counted
ctt
cat
->ouput: screen
   cat HellowWorld.txt |1
unknow command
"hellow world"
Only one standard input and one standard output, you don't worry about this cases
cat HellowWorld.txt |1
removetag HellowWorld.txt (X)
                                       # two input
    HellowWorld.txt |1\rangle result.txt (X)
                                                 #two output
But the case will happen
cat HellowWorld.txt |2
removetag HellowWorld.txt |1
cat
->output: screen
    cat HellowWorld.txt |2
    removetag HellowWorld.txt |1
%
%
   cat
"hellow world".
hellow world
```

## 2 Submission

- 1. Submit your implementation of hw7.cpp to E3.
- 2. Do not rename the files or put them into any directory. Upload them directly to the e-Campus (E3) system. You will get no credit if you don't follow the rule. Note that the penalty for late homework is 15% per day, and late homework will not be accepted after 3 days past the due date. In addition, homework assignments must be individual work. If I detect what I consider to be intentional plagiarism in any assignment, the assignment will receive zero credit.