# **Design Document - Pseudocode**

### 11: Initialize

```
SYS set terminal: raw, !canon, igncr, !echo

Open INPUT_OUTPUT pipe

Open INPUT_TRANSLATE pipe

Open TRANSLATE_OUTPUT pipe

fork -> OUTPUT_PROCESS

fork -> TRANSLATE_PROCESS

WaitForInput()
```

# 12: WaitForInput

```
while there is still input
    WriteChar(c)
    buffer <- char

if char == E
        WriteBuffer()

if char == [control + k]
        kill(processes)

if char == T
        WriteBuffer()
        terminate processes</pre>
```

### 13: WriteChar

write char to INPUT OUTPUT pipe

### 14: WriteBuffer

write buffer to INPUT\_TRANSLATE pipe
ClearBuffer

### 15: ClearBuffer

```
Buffer[0] <- '\0'
```

# O1: WaitForOutputData

```
while no T or [Control+k] chars in pipe, read()
    PrintData(char)
    if (char == E)
        read(TRANSLATE_OUTPUT pipe)
        PrintData(TranslateData)
```

### O2: PrintData

printf(data)

# T1: WaitForTranslateData

```
while no T or [Control+k] chars in pipe, read()
     ProcessData()
```

### T2: ProcessData

```
for each character in buffer
    if char is a: char <- z
    if char is X: bufferpointer--
    if char is T: terminate()</pre>
```

### T3: WriteTranslateData

write buffer to TRANLATE\_OUTPUT pipe