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Pseudocode – 4981 A1

Main
        turn off regular terminal processing
        open 2 pipes – one for output and one for translate
        create a child process for output
            continuously read from an output pipe
        create a child process for translate
            continuously read from translate pipe into output pipe
        in the parent process, write user input to output and translate pipes
        if wanting to exit,
            turn on regular terminal processing
            exit the parent process

Input
        create a buffer and keep track of its fullness
        continuously read character by character
        check character:
            character is control+K –
                exit from output and translate child processes
                return
            character is T
                store the character in the buffer and increase count
                write the character to output and translate processes
                exit from both processes
                return
            character is E
                store the character in the buffer and increase count
                write the character to output process and reset the buffer
            character is K
                write the character to output process
                reset nullify the buffer
            otherwise, store the character in the buffer and increase count
            write the character to the output process

Output
        set an exit variable to false
        continuously read character by character
        if the character is T
            program wants to exit, set exit to true
            if exit is already true, exit
        flush standard output of the character read, and reset

Translate
        continuously read character by character
         check character:

character is X – delete previous character and X
character is E – write on a new line
character is T – return back to input to terminate
character is a – change to z and write to output
otherwise write to output process as normal