Kitty's XML Parser Algorithm
For CPRG 311 – Assignment 4, SAIT Polytechnic

If Self_Closing_Tag

    Ignore

If Start_Tag

    Push on stack

If End_Tag

    If matches top of stack, pop stack and all is well

    Else if matches head of errorQ, dequeue and ignore

    Else if stack is empty, add to errorQ

    Else

        Search stack for matching Start_Tag

        If stack has match

            Pop each E from stack into errorQ until match, report as error

        Else

        Add E to extrasQ

Repeat until EOF

If stack is not empty, pop each E into errorQ

If either queue is empty (but not both), report each E in both queues as error

If both queues are not empty, peek both queues

    If they don't match, dequeue from errorQ and report as error

    Else dequeue from both

Repeat until both queues are empty