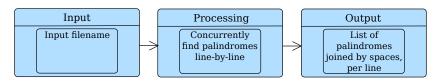
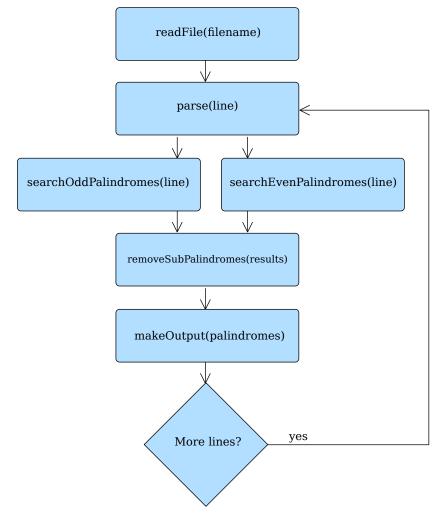
Assignment 1: Design Joshua Dong January 25, 2015

1 System IPO



2 Functional Block Diagram



3 Pseudocode

```
readFile(Filename) ->
   Lines := open(Filename, 'r').read().split('\n'),
   Lines[:"QUIT"].
isPalindrome(String) ->
    case length(String) rem 2 of
        0 ->
        String[:length(String)/2] == reverse(String[length(String)/2:]);
        String[:length(String)/2] == reverse(String[(length(String)/2)+1:])
    end.
evenSearch(Line, Results) ->
    do stuff,
    ++Semaphore;
oddSearch(Line, Results) ->
    do stuff,
    ++Semaphore;
parseLine(Line) ->
    Semaphore = -1,
    Even = spawn(evenSearch(Line, Results, Semaphore)),
    Odd = spawn(oddSearch(Line, Results, Semaphore)),
    Semaphore.aquire();
    Results := filter(Results, (Palindrome) -> !isSubPalindrome(Palindrome)),
    Results.
main([Filename]) ->
   Lines := readFile(Filename),
   LineResults := [parseLine(Line) for Line in Lines],
   for LineResult in LineResults:
        print(''.join(LineResult))
```