Exercise 4 a) After recursively removing the clead-and nodes we les left with only the root node that refess to itself! which means that the only page vanh is stre page rank for the root node which is 1. by Using the first method in 5.1.4 of the book, we reinsest the deadends and calculate their page ranh in reverse only of removals $\frac{1}{3}$ $\frac{1}{$ 1) 01/2 ... That means => page and of Other level (root node) Page rank of ithereof, i=l, -, n $= \frac{1}{3} \cdot \left(\frac{l}{2}\right)^{i-1}$ If we sen then up we set! 1 + 2-\frac{1}{3} + 4. \frac{1}{5}. \frac{1}{2} + 8. \frac{1}{3}. \frac{1}{2} - \frac{1}{2} + \dots. = 1 + = (1+2-\frac{1}{2}+4.(\frac{1}{2})^2+...)

