UECS2083 Past Year 2016 Answer

1(a)

Tail recursion is a special kind of recursion where the recursive call is the *very last* thing in the function (means there is no pending operation to computed). It's a function that does not do anything *at all* after recursing.

1(b)(i) f2

1(b)(ii) 9 times

1(b)(iii) 36

1(c)(i) No. No.

1(c)(ii)

According to https://stackoverflow.com/questions/12359660/difference-between-complete-binary-tree-strict-binary-tree-full-binary-tre

Full binary is a tree where every node have 2 children, except for leaves (which are nodes that don't have children).