Tail Recupsion

A recursive function is called tail Recursive if the function does not do any thing after the last recursive call.

def fun(n):

"f (n<=0):

return

print(n, end="")

fun (n-1)

Tail Recursive

det fun(n):

if (n <= 0):

return

fun (n-1)

print (n, end="")

def fun (n):

if (n==0):

return 1

return n*fact(n-1)

Non Tail Recursive

def fun(n):

if (n==0):

return

print(n)

fun(n-1)

Removing

Recupsion

def fun(n):

while (n!=0):

print (n)

n = n-1

- 1) Replace if with while
- 2) Change values of papameters at the end of the loop

Example of Tail recursive functions

-> Quick Sort -> Postorder Tree Traversol

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