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CS 2233-01

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swapXY

Algorithm: swapXY(px, py) #predecessors given. x&y swapped.

if … # empty condition

else if … # other conditions

…

else

first = px.next() # save x

second = py.next() # save y

px.setNext(second) # px -> y

SY = second.next() # save sy

second.setNext(first.next) # y -> sx

py.setNext(first) # py -> x

first.setNext(SY) # x -> sy

Algorithm: swapXY(x, y) #x & y given and swapped.

if … # empty condition

else if … # other conditions

…

else

predX = getPred(x) # get and save px

predY = getPred(y) # get and save py

predX.setNext(y) # px -> y

tempSY = y.next # save sy

y.setNext(x.next) # y -> sx

predY.setNext(x) # py -> x

x.setNext(tempSY) # x -> sy