Graphs 06
Graphs (Part 3)

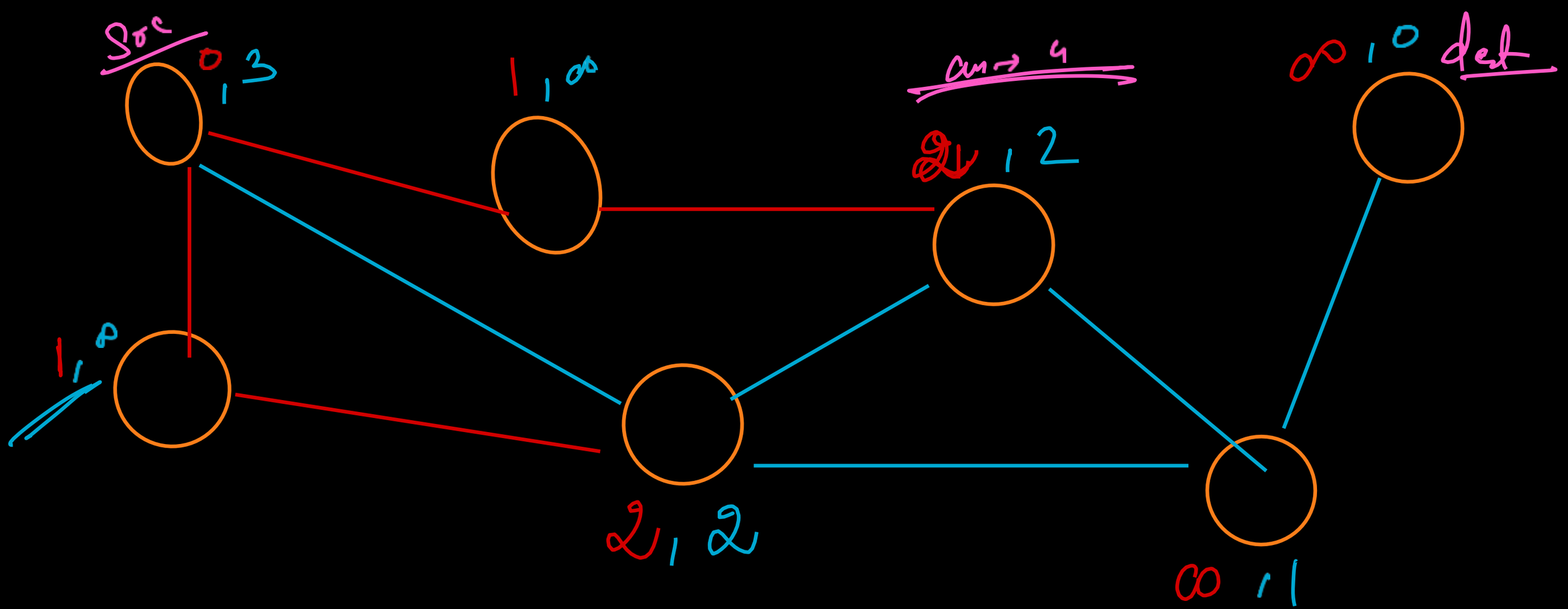
Q) You're given an undirected an unweighted graph, with a src & dest node. Every edge has a color either Red & Blue. find the shortest path btw src and dest such that

(1) the path always starts from a Red edge & ends at a blue edge.

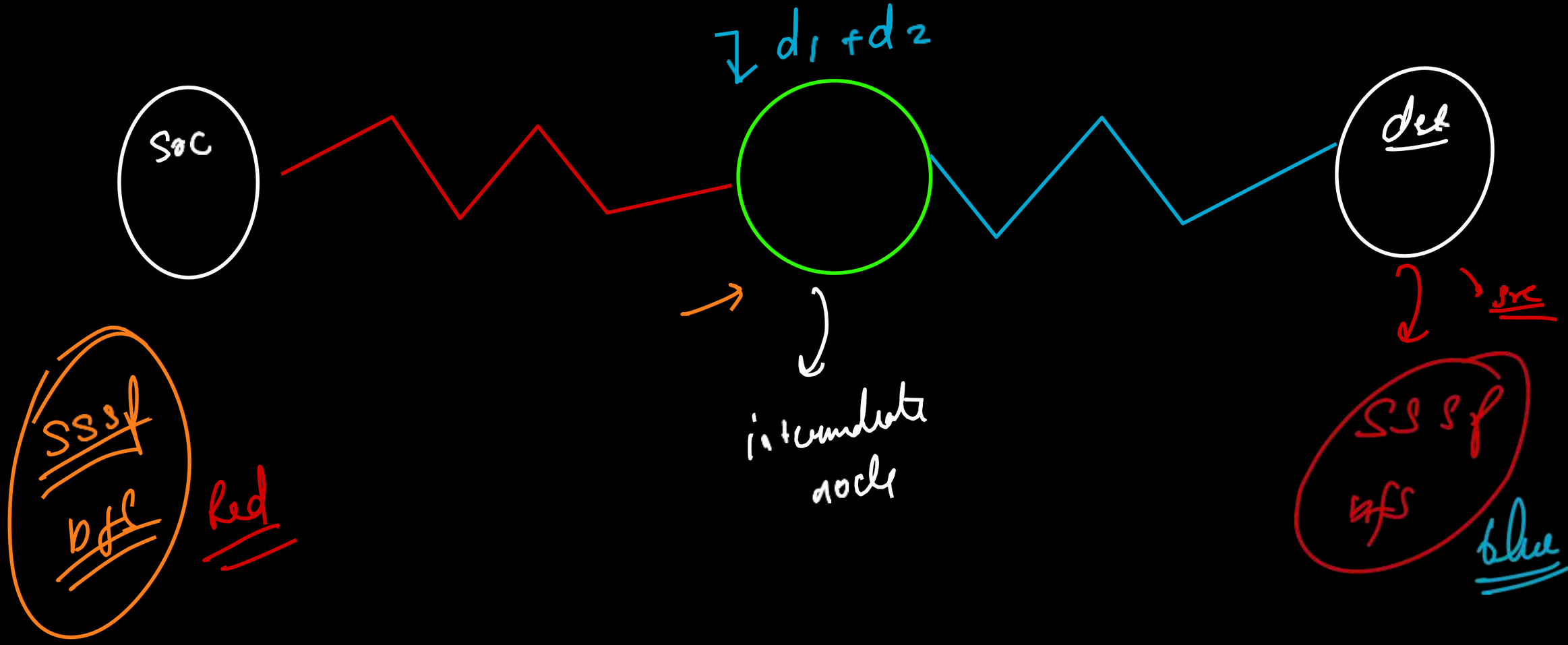
(2) You can shift from Red edge to blue only once.

(3) There are no self loops or multiple edges.

JOIN THE DARKSIDE

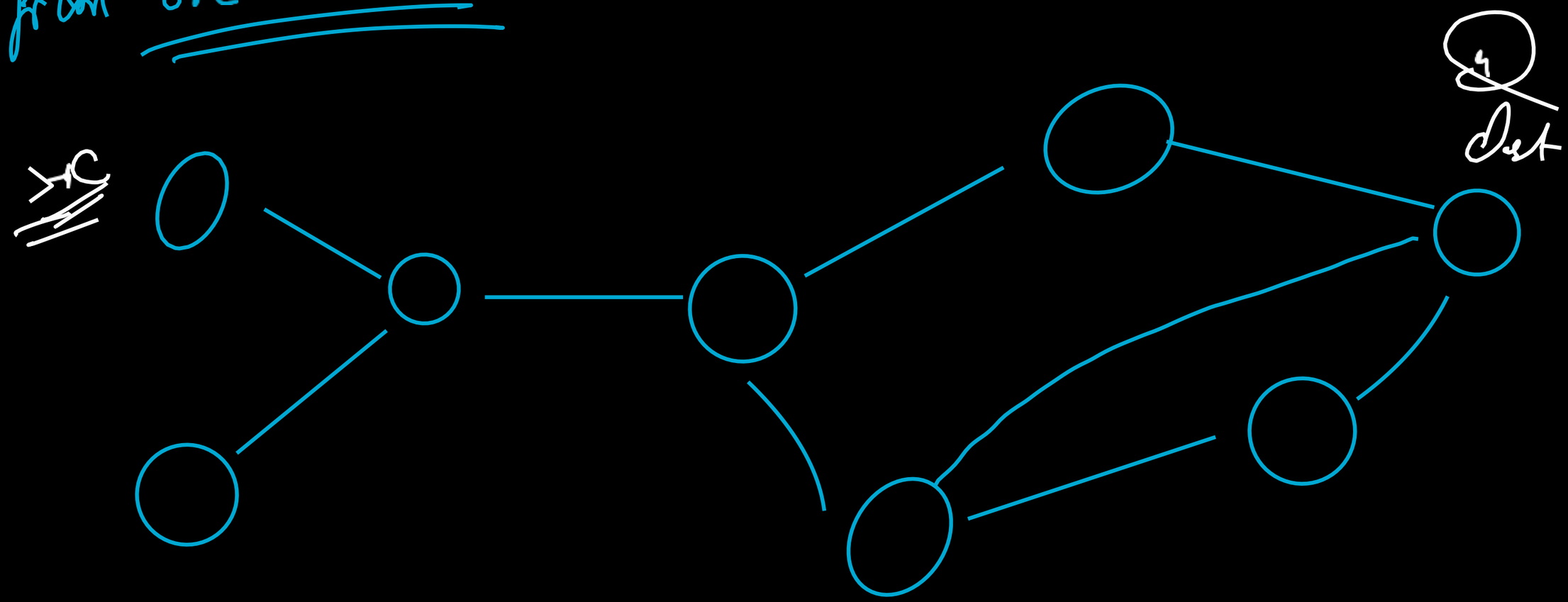


JOIN THE DARKSIDE



JOIN THE DARKSIDE

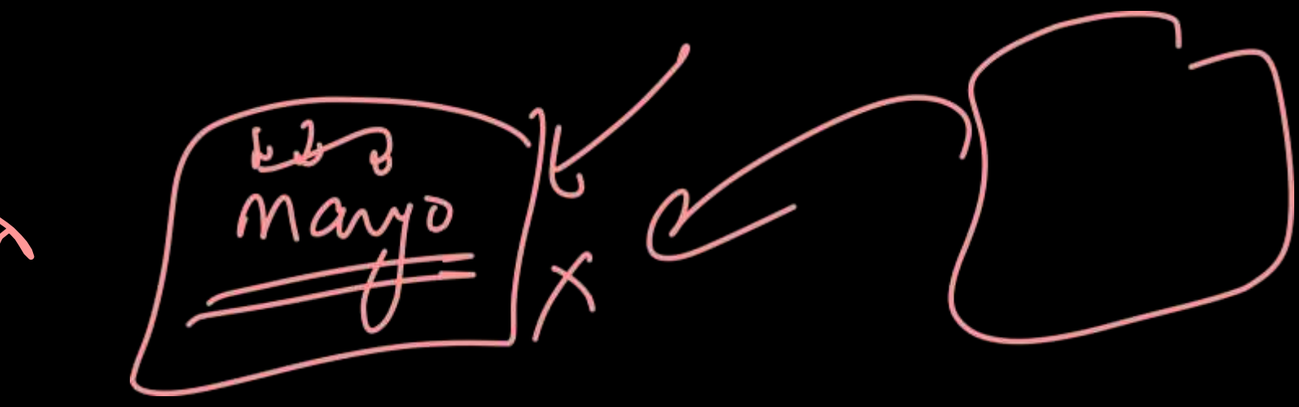
Q: Given an undirected, unweighted graph, a src & dest. Find all nodes which lone in atleast one shortest path from src to dest.



JOIN THE DARKSIDE

↳ whenever we need to read a dictionary order
→ the letters within a word don't tell us much about the order.

→ [a d b c] , [d a b c]



JOIN THE DARKSIDE

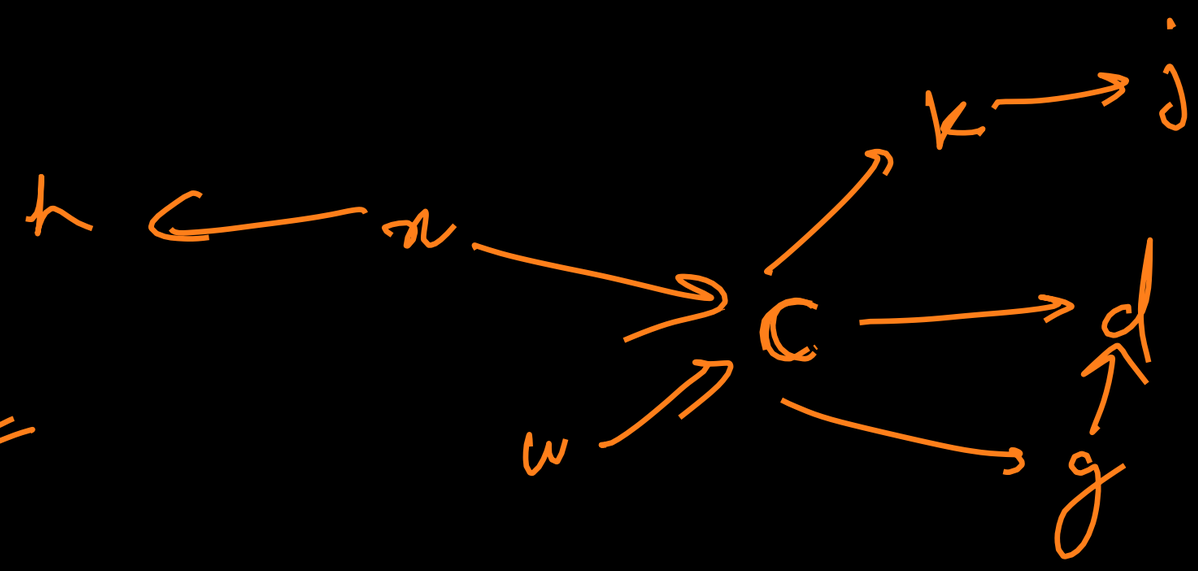
cn → [wxqkj, whqg, cckgh, cdxg, cdxdt, cdht, ktgxt, ktgch, ktdw, ktdc, jqw, dmc, dmg]

$w \to c$; $c \to k$; $k \to j$

$x \to h$; $c \to d$

$g \to d$; $x \to h$; $x \to c$

$q \to m$; $c \to g$



Lpo

b

q → m

JOIN THE DARKSIDE

PW SKILLS

THANK YOU