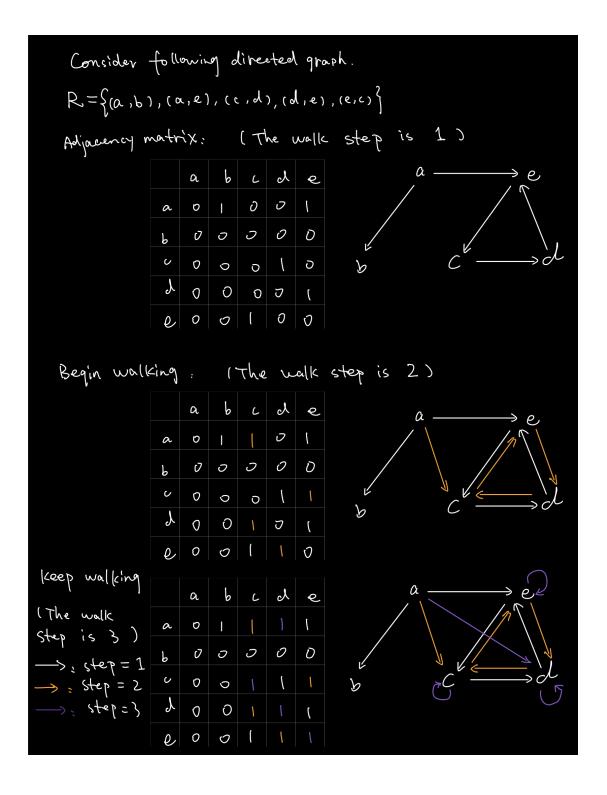
Architecture

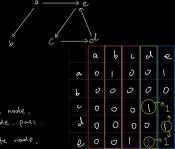


For this graph, increasing step more than 3 will not bring more connections, so the final result of the truncitive closure is

Synchronize with the code (Worshall)

For 'a' as the intermediate

| | a | Ь | L | Y | و |
|---|---|---|---|-----------------|---|
| a | О | 1 | д | ס | ı |
| Ь | O | o | J | 0 | D |
| | 0 | 0 | ō | $ \mathcal{Q} $ | 0 |
| γ | 0 | 0 | 0 | ט | ſ |
| e | 0 | 0 | | 31 | 0 |



e

A(c,d)=1 and $A(d,e)=1 \Rightarrow A(c,e)=1$ A(e,d)=1 and $A(d,e)=1 \Rightarrow A(e,e)=1$

 $A(\alpha,e)=1$ and A(e,c)=1 and A(e,d)=1 \Rightarrow $A(\alpha,c)=1$, $A(\alpha,d)=1$

A(c,e)=1 and A(e,c)=1 and A(e,d)=1 \Rightarrow A(c,c)=1, A(c,d)=1

A (d,c)=1 and A(e,c)=1 and A(e,d)=1 \Rightarrow A(d,c)=1, A(d,d)=1End



The final transitive closure is.

