

0 2 3 4 5

0 2 3 4 5

0 30 40 50 80 80

0 30 40 50 70 70

0 30 40 50 70 70

0 30 40 50 70 70

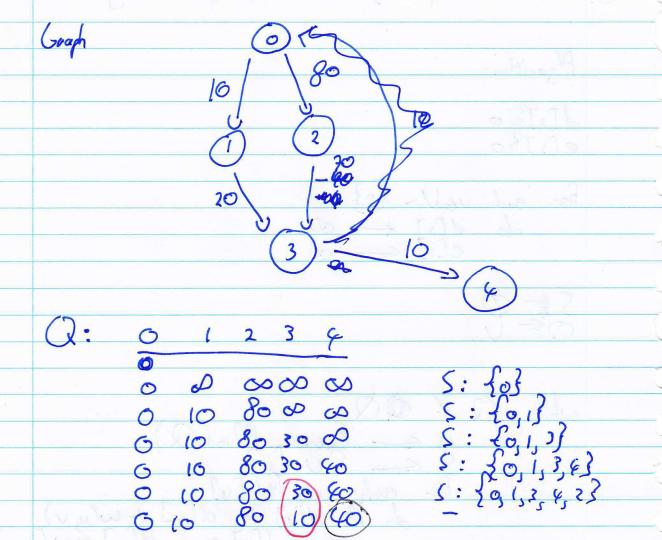
0 30 40 50 70 70

0 30 40 50 70 70

S: {0, 1} S: {0, 1} S: {0, 1, 2} S: {0, 1, 2, 3} S: {0, 1, 2, 3, 4, 5} S: {0, 1, 2, 3, 4, 5}

(x) = upolite

3.



We see that the update with the length of o v 3 updates to a love value but the path o v > 4 does not update because it is already in S

5.	Os for this problem, we alter Détestra's algorithm a little:
	100 m
	Algorithm:
	d[]=0 e[]=0
	for each ve V- {s}
	do $d[s] \leftarrow \omega$ $e[s] \leftarrow \infty$
mad	SE O QF U
<u></u>	
	while Q 7 QQ do u = Extract - Min (Q)
40-3	() 4 u
	then d[u] = d[u] + w(u, u)
200	else if $d[v] = = d[u] + w(u,v)$ then if $e[u] + 1 < e[u]$ then $d[v] \leftarrow d[u] + w(u,v)$ $e[v] \leftarrow e[u] + 1$
	e[v] \ e[u] + 1'
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