

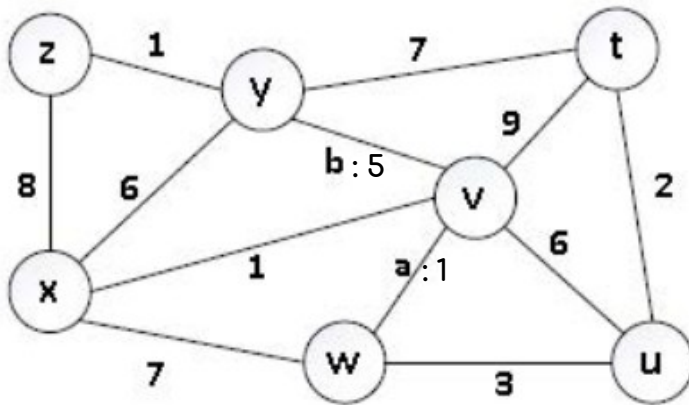
CS348 Assignment 1

Assignment Topic: Routing

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Denotions :

a : 1 (6th character)

b : 5 (max(8th, 9th) character)

$D(v)$: Min cost of least-cost path from source to node v for current iteration

$p(v)$: Previous node of the dest. v along the least-cost path.

Step	N'	$D(t), p(t)$	$D(u), p(u)$	$D(v), p(v)$	$D(w), p(w)$	$D(y), p(y)$	$D(z), p(z)$
0	X	∞	∞	1,X	7,X	6,X	8,X
1	XV	10,V	7,V		2,V	6,X	8,X
2	XVW	10,V	5,W			6,X	8,X
3	XVWU	7,U				6,X	8,X
4	XVWUY	7,U					7,Y
5	XVWUYZ	7,U					
6	XVWUYZT	7,U	5,W	1,X	2,V	6,X	7,Y

Please note that the greyed out cells mean that the minimum cost from x to that dest. has been achieved. Hence, all the later iterations for that iteration would have the same value as the greyed out cell