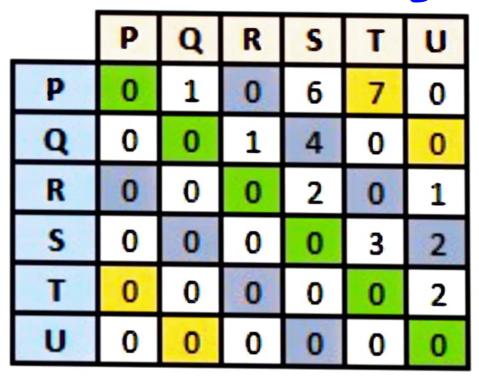
<b>Asignment</b>	<b>W3D5</b>
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Figure	1
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	A	В	C	D	E	F	G	H	1
Α	0	22	9	12	0	0	0	0	0
В	22	0	35	0	0	36	0	34	0
C	9	35	0	4	65	42	0	0	0
D	12	0	4	0	33	0	0	0	30
E	0	0	65	33	0	18	23	0	0
F	0	36	42	0	18	0	39	24	0
G	0	0	0	0	23	39	0	25	21
H	0	34	0	0	0	24	25	0	19
-	0	0	0	30	0	0	21	19	0

## Figure 2



$$A[B] = 0$$

$$A[B] = A[A] + \omega(A,B) \Rightarrow 0 + 22 \Rightarrow 22$$

$$A[C] = 11 + \omega(A,C) \Rightarrow 0 + 9 \Rightarrow 9$$

$$A[D] = 12$$

$$A[B] = A[B] + \omega(A,B) \Rightarrow 9 + 35 = 44$$

$$A[D] = 12$$

$$A[B] = A[B] + \omega(A,B) \Rightarrow 9 + 45 = 13$$

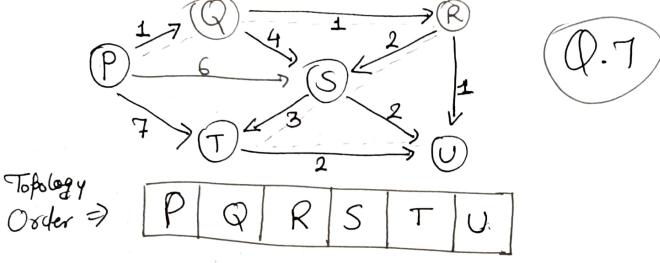
$$A[B] = 12$$

$$A[A[B] = 12$$

$$A[A[A] = 12$$

A[4] = 63 A[H] =56 A [H] = 56 A[4] = A[F] + W(F, 4) => 51+39 = 90 A[4] = 63 + W(F,H) =) 51+24=75 ALHJ = " A[4]=63 ABCDEFGHT 0 22 9 12 45 51 63 56 42 (need and (need with) n+m logn & O(m (ogn)

4. NOt Studied Yet.



$$D[S] = \min\{D[P] + \omega(P,S) = \min\{0 + 6, = \min\{6, 5, 4\}\}$$

$$D[Q] + \omega(Q,S) = \min\{0 + 4, = \min\{6, 5, 4\}\}$$

$$D[R] + \omega(Q,B)\} = 2 + 27 \quad D[S] = 34$$

$$D[T]=\min\{D[P]+\omega(P,T), \Rightarrow \min\{0+7, \Rightarrow \min\{7, \}\}\}$$

$$D[S]+\omega(S,T)\} \Rightarrow \min\{0+7, \Rightarrow \min\{7, \}\}$$

$$D[T]=\emptyset$$

$$D[V] = \min \{D[R] + \omega(u, R), \min \{2 + 1, \min \{3, 5, 9\}\}$$

$$D[S] + \omega(u, S), = \min \{3, 5, 9\}$$

$$D[T] + \omega(u, T)\}$$

$$V + 29$$

$$D[U] = 3$$

9) 
$$\Rightarrow$$
 yes

A[P]=0

A[Q]=AP]+ $\omega(P,Q)=0$ 

A[S]=  $\frac{1}{2}$ 

A[S]=  $\frac{1}{2}$