

1. list 2 valied topological sort ordering or one:-

Ans:-

V	Indegree	Known
A	0	7T
B	XO	KT_
C	Ko	XT_
0	BAXO	ST
ENTS-HU	X _O B com	FT

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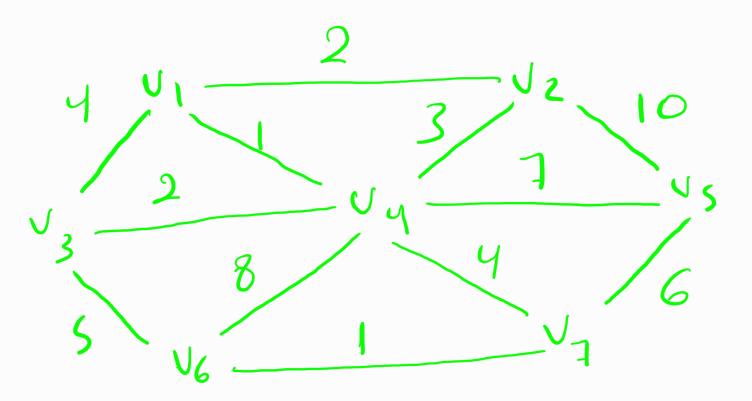
A->B->C->E->D

2. worst case big-0 for
topological sort as an
adjacency list (will queue):Ans:- O(E+U)

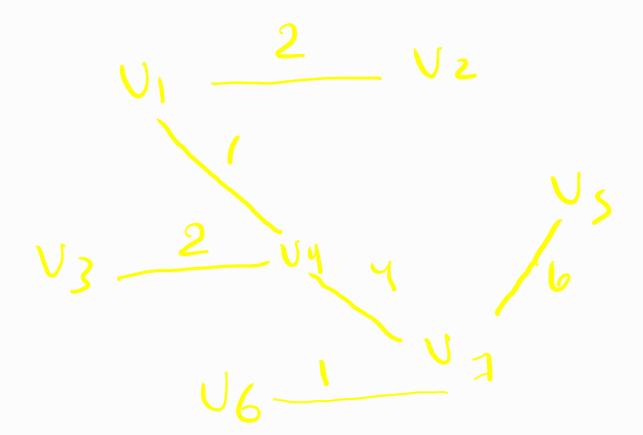
3. is the graphi-

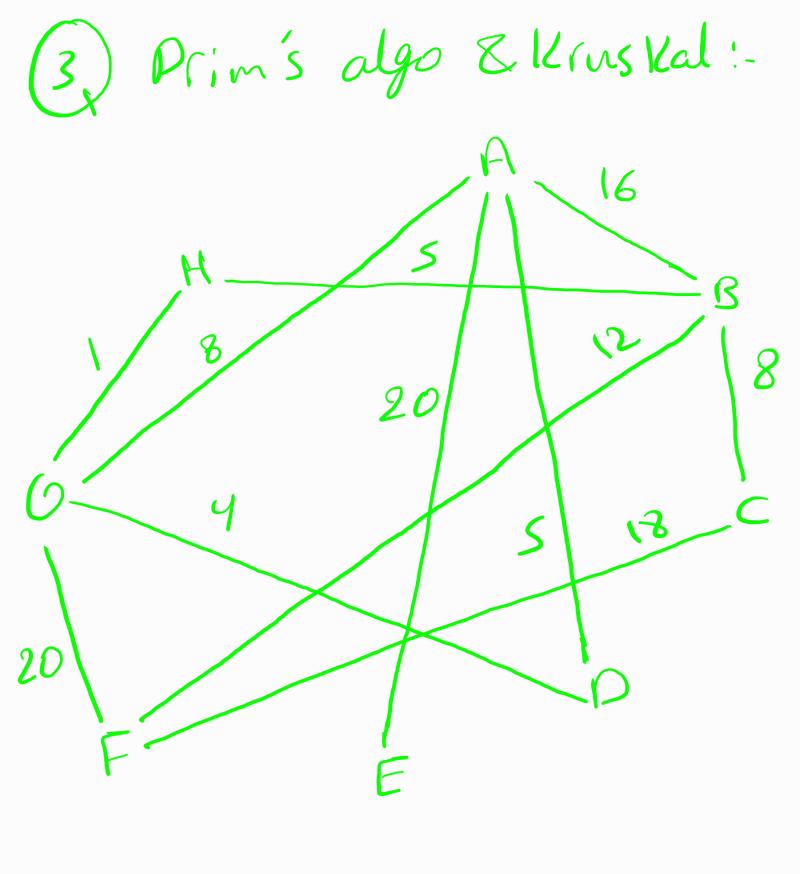
directed weally connected undirected complete asydic 3 trongly connected





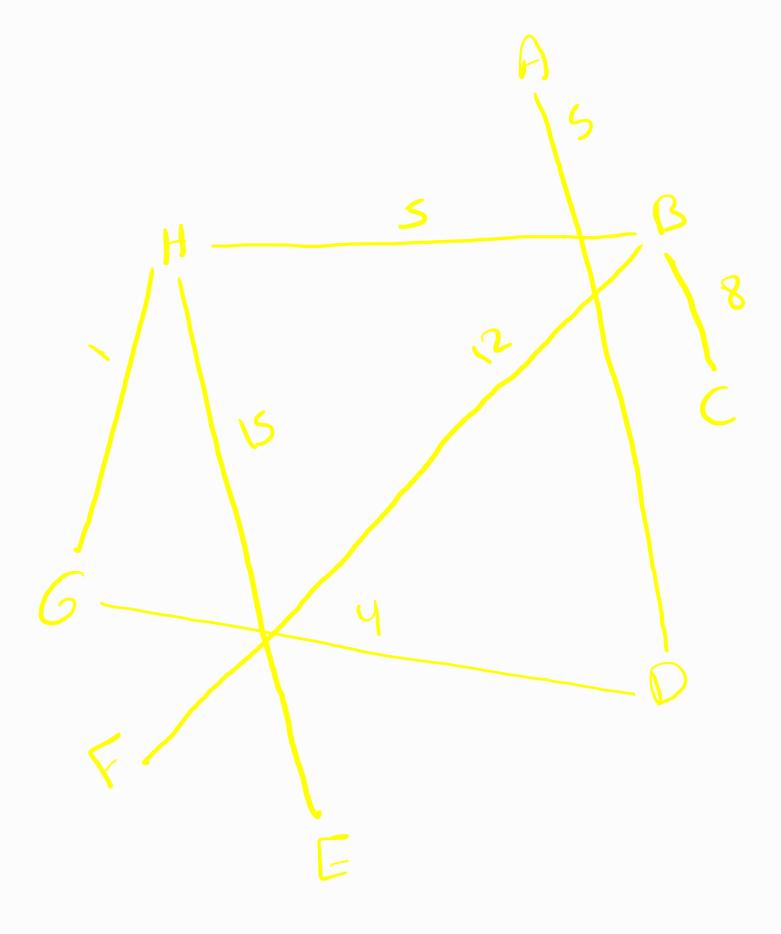
·P	lim's a	go:-	
V	Knovn	du	PV
V _I	8	0	0
Vz	Ø \	<i>6</i> 2	6 V.
V3	8	1×2	V Y V 4
Uq	0/\	961	y U
VS	8/1	\$ 16	4 44 V7
V6	8/1	628 L	byn ys Va
VI	2/	96 V	J Vy





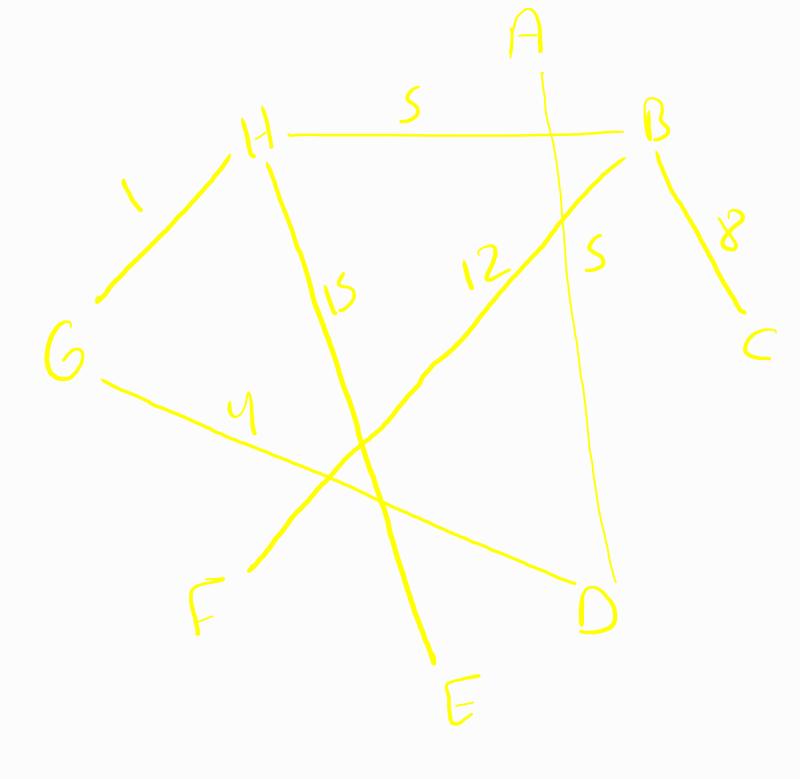
Ans:-

V	Known	du	Pu
A	ØI	of 16 3/5	9860
B	ØI	0	0
C	Ø (\$ 8	ØB
O	Ø	Ø U	\$6
E	Ø	9615	1
F	<u>/</u> \	9612	Ø B
6	Ø,	9/1	Ø H
H	61	\$5	\$ \$ G

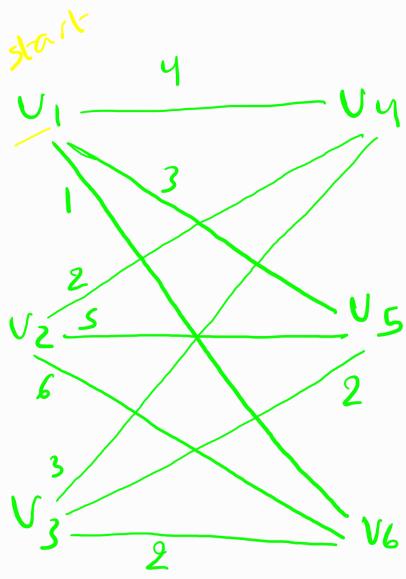


Krus Kal:-

•			
edges	Cost	accepted	
(G,H)	1		
(G,D)	4		
(O, A)	5		
(B, H)	5		
(B,C)	8		
(G,A)	8	X	,F
(H, E)	15	V	2 ~
(A,B)	16	X	
(C,F)	18	X	
(A, E)	20	X	
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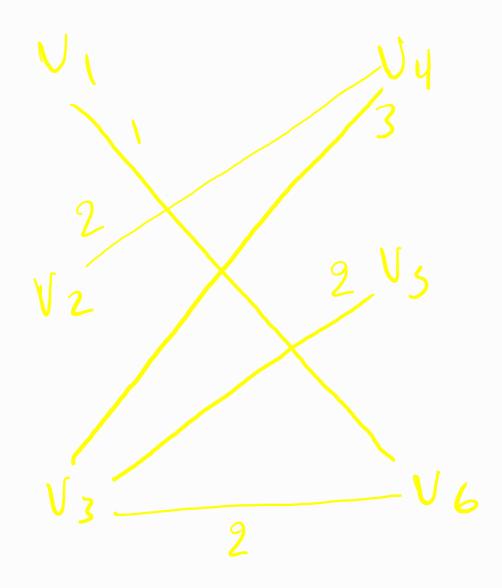






Ans:Prins:-

V	Known	du	PU
Vi	91	0	0
Vz	61	6/82	656 ys Jy
V3	V	<i>y</i> 2	ØV6
Vy	Ø	6×3	# 4 V 3
Vs	61	\$32	by/\sigma_3
V6			d VI



Krus 12al:-

edge	Cost	accepted
(U1, U6)		
(V2, V4)	2	
(V3, V5)	2	
(V3, U6)	2	
(v,, vs)	3	X
(U3,U9)	3	
(V,, Vy)	4	X
(U2,Us)	, 5	X
(V, V6) STUDENTS-HUB.	com 6	Uploaded By:

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