# Data Structure Homework VI

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### **Question 1**

Iteration	Vertex selected	d[A]	d[B]	d[C]	d[D]	d[E]	d[F]	d[G]	d[H]
Initial		0	8	8	8	8	8	8	8
1	Α	٥	œ	2	5	8	8	8	8
2	U	0	B	2	4	7	8	8	8
3	D	0	6	2	4	5	10	7	8
4	Ш	0	6	2	4	5	0	6	8
5	В	D	6	2	4	b	10	6	8
6	G	D	6	2	4	2	8	6	12
7	F	0	6	2	4	V	Ø	6	[1]

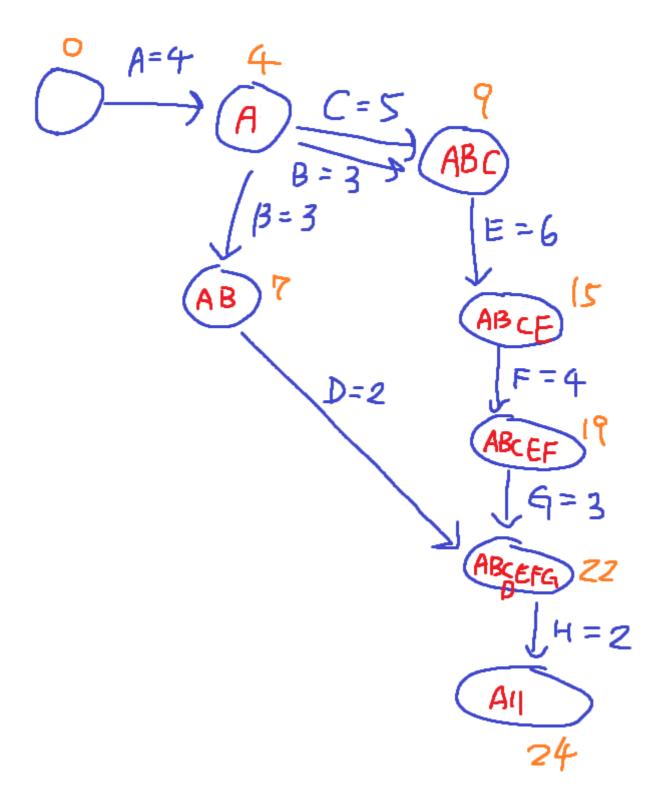
## Question 2

Initi	alizo				
ITTICI	Initialize 0		2	3	4
		1			
0	0	6	INF	7	INF
1	INF	0	5	8	-4
2	INF	-2	О	INF	INF
3	INF	INF	-3	0	9
4	2	INF	7	INF	0
k=	= 0				
	0	1	2	3	4
0	0	6	INF	7	INF
1	INF	0	5	8	-4
2	INF	-2	0	INF	INF
3	INF	INF	INF	0	INF
4	2	8 7		9	0
k	k = 1				
	0	1	2	3	4
0	0	6	11	7	2
1	INF	0	5	8	-4
2	INF	-2	0	6	-6
3	INF	INF	-3	0	9
4	2	8	7	9	0

k:	k = 2				
	0	1	2	3	4
0	0	6	11	7	2
1	INF	0	5	8	-4
2	INF	-2	0	6	-6
3	INF	-5	-3	0	-9
4	2	5	7	9	0
k:	= 3				
	0	1	2	3	4
0	0	2	4	7	-2
1	INF	0	5	8	-4
2	INF	-2	0	6	-6
3	INF	-5	-3	0	-9
4	2	4	6	9	0
k = 4					
	0	1	2	3	4
0	0	2	4	7	-2
1	-2	0	5	5	-4
2	-4	-2	0	3	-6
3	-7	-5	-3	0	-9
4	2	4	6	9	0

### Question 3

3-1



3-2

Subtask	Α	В	С	D	E	F	G	Н
Earliest start time	0	4	4	2	9	5	9	22
Latest start time	0	9	4	20	0-	15	19	22

<sup>3-3</sup> A->C->E->F->G->H Because Earliest = Latest

<sup>3-4</sup> Yes, because E is critical activity.