Data Structure HW6

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Q1

Iteration	Vertex selected	d[A]	d[B]	d[C]	d[D]	d[E]	d[F]
Initial	A	0	0	0	0	0	0
1	C	0	0	2	0	0	0
2	B	0	4	2	0	0	0
3	E	0	4	2	0	5	0
4	D	0	4	2	9	5	0
5	F	0	4	2	9	5	20

Q2

k=1	1	2	3	4
1	0	5	∞	∞
2	∞	0	1	∞
3	8	13	0	3
4	2	7	∞	0

k=2	1	2	3	4
1	0	5	6	∞
2	∞	0	1	∞
3	8	13	0	3
4	2	7	8	0

k=3	1	2	3	4
1	0	5	6	9
2	9	0	1	4
3	8	13	0	3
4	2	7	8	0

k=3	1	2	3	4
1	0	5	6	9
2	6	0	1	4
3	5	10	0	3
4	2	7	8	0

Q3

(A)

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(B)

subtask	e1	e2	e3	e4	e5	e6	e7	e8	e9
Earliest start time	0	0	0	3	4	2	9	15	9
Latest start time	0	1	0	3	5	2	9	15	9

(c)

e1 e3 e4 e6 e7 e8 e9

this mean that they are on critical path and can not be delay