Harjot Grewal CSE 100 Midterm 3, Spring 2021

By completing this exam, I acknowledge and confirm that I will not give or receive any unauthorized assistance on this examination. I will conduct myself within the guidelines of the university occidenic integrity guidelines.

1) a) True

6) True

c) True

d) True

e) False

f) False

g) True

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2) a) $c[i,j] = \begin{cases} 0 & \text{if } i=0 \text{ or } j=0 \\ c[i-1,j-1]+1 & \text{if } i,j>0 \text{ ond } x:=y; \\ \max(c[i,j-1,c[i-1,j]); f:,j>0 \text{ ond } x:\neq y; \end{cases}$

		ؠؙ	у;	A	B	B	A-	entined.
6)	•	AND STREET, ST	0	1	21	31	4	1
and the second s	X	0	0	0	0	0	0	
	Д	1	0	1	1	1	1	
	C	2	0	1,	+1	1	1	
Management of the American Consequence of the	13	3	0	1	12	12	12	
	A	Ц	0	1	12	12	13	
	B	5	0	11	12	. 3	3	1.(

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4) a) Dijkstra (G, w, s)

1 Initialize-Single-Source (G, s)

2 S = Ø

3 Q = G.V

4 while Q ≠ Ø

5 u = Extract-Min (Q)

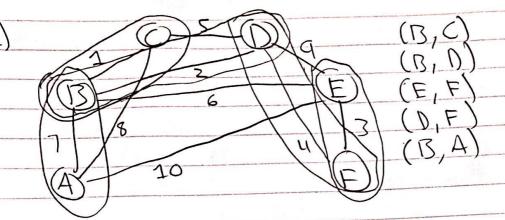
6 S = SU {u}

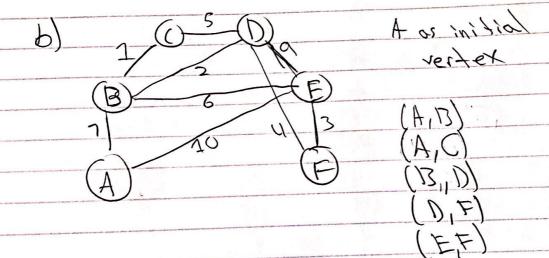
7 for each vertex v ∈ G. Adj [u]

8 Relax (u, v, w)

b)		5	+1	X	X	2
	1	0	60	60	60	8
	2	0	10	.00	5	∞
	3	0	8	14	5	7
and the second s	L	0	8	13	\$5	17
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	6	0	3	9	5) 7
	0		10			and the state of t

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6) top down:

Array A [O...n] A [O] = O, A [1] = 1 A [2] = A [3] = ... Δ [α] = - infinity return $\Delta u \times P(A, \alpha)$

int Aux-F(n)

if A[n] >= 0 return A[n] A[n] > Aux-F(A,n-1) + Aux-F(A,n-2)

return A In]

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	7)		1	2	3	4)	5	1/2/3/4/5
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-		Y	2	8	-5	0	∞	4/2/5/5/0/-2
		5	α	60	60	6	B	5/00/00/6/0

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-		0	3	8	U	-4	1	0	4	-3	121	- 1
	2	∞	0	8	1	7	2	3	0	1-4	12	1-1
	3	α	4	0	5	11	3	7	14	10	15	13
	Ч	2	5	-5	0	-2	C	2	1-2	7 J-2	5/0	1-5
	5	$ \infty $	$ \infty $	$ \infty $	6	0	5	8	5	(1	1/6	40
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-	2	3	0	-4	1	-1	2	3	0	-4	1	-1
	3	7	Ŋ	0	5	3	3	12	U	0	5	13
	Ч	2	-1	-5	6	1-2	U	12	1-1	1-5	10	1
	5	8	5	11	(6	6	5	5/7	15	5 1	-16	10
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