CS4335 Design and Analysis of Algorithms

Tutorial 4

- Question 1:
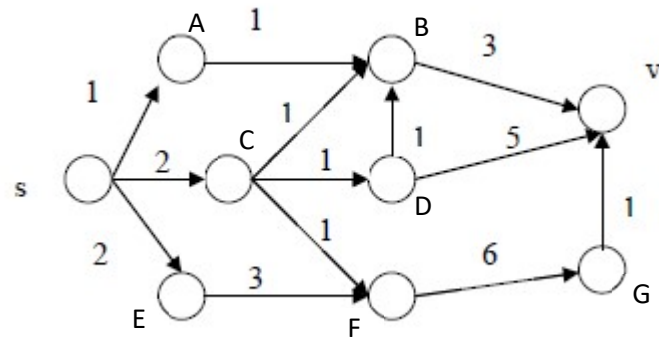
	s	a	b	c	d	e	f	g	v
1	**0/NIL**	∞/NIL	∞/NIL	∞/NIL	∞/NIL	∞/NIL	∞/NIL	∞/NIL	∞/NIL
2	0/NIL	1/s	∞/NIL	2/s	∞/NIL	2/s	∞/NIL	∞/NIL	∞/NIL
3	0/NIL	1/s	2/a	2/s	∞/NIL	2/s	∞/NIL	∞/NIL	∞/NIL
4	0/NIL	1/s	2/a	2/s	∞/NIL	2/s	∞/NIL	∞/NIL	5/b
5	0/NIL	1/s	2/a	2/s	3/c	2/s	3/c	∞/NIL	5/b
6	0/NIL	1/s	2/a	2/s	3/c	2/s	3/c	∞/NIL	5/b
7	0/NIL	1/s	2/a	2/s	3/c	2/s	3/c	∞/NIL	5/b
8	0/NIL	1/s	2/a	2/s	3/c	2/s	3/c	9/f	5/b
9	0/NIL	1/s	2/a	2/s	3/c	2/s	3/c	9/f	5/b

$$S = \{s, a, b, v\}$$

Back tracking:

v -> b -> a -> s