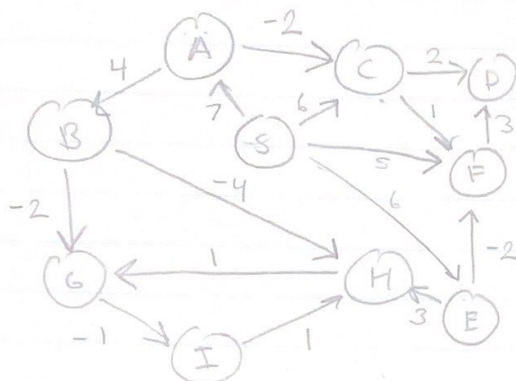
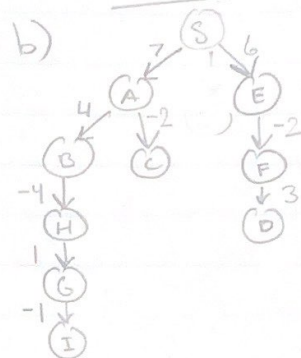


HW 9- 4.2



Shortest Distance Tree



Prev

S	A	B	C	D	E	F	G	H	I
	S	A	A	F	S	E	H	B	G

Dist

a)

Iteration	S	A	B	C	D	E	F	G	H	I
Start	0	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$
1	0	7	$\infty$	6	$\infty$	6	5	$\infty$	$\infty$	$\infty$
2	0	7	11	5	8	6	4	$\infty$	9	$\infty$
3	0	7	11	5	7	6	4	9	7	$\infty$
4	0	7	11	5	7	6	4	8	7	7
5	0	7	11	5	7	6	4	8	7	7
6	0	7	11	5	7	6	4	8	7	7
7	0	7	11	5	7	6	4	8	7	7
8	0	7	11	5	7	6	4	8	7	7
9	0	7	11	5	7	6	4	8	7	7