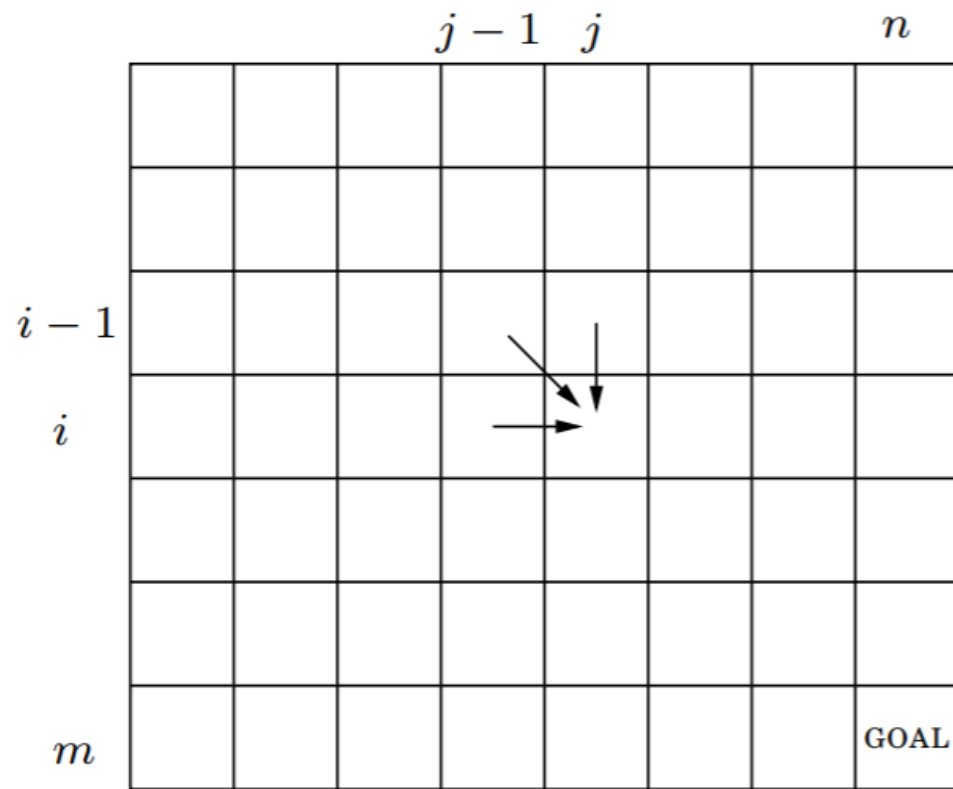


# Edit distance subproblems

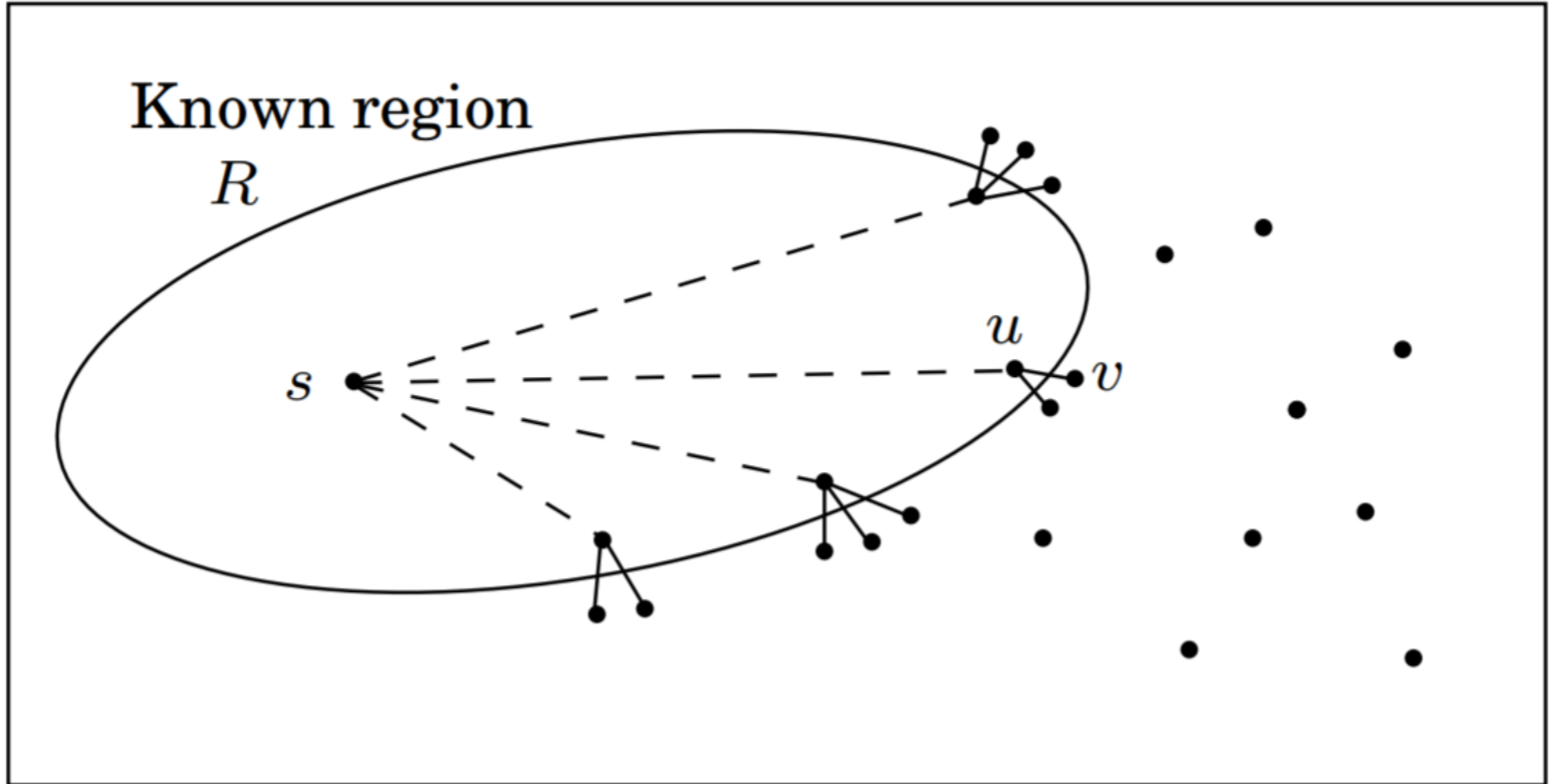
(a)



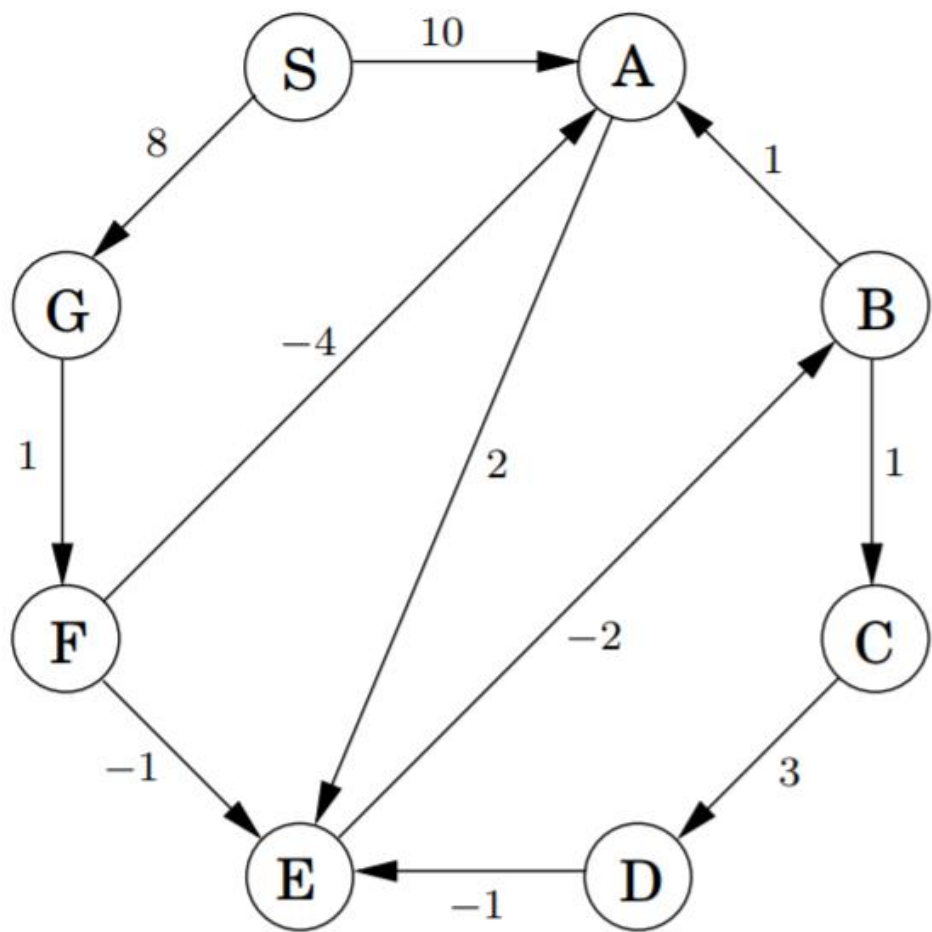
(b)

		P	O	L	Y	N	O	M	I	A	L
E	0	1	2	3	4	5	6	7	8	9	10
X	1	1	2	3	4	5	6	7	8	9	10
P	2	2	2	3	4	5	6	7	8	9	10
O	3	2	3	3	4	5	6	7	8	9	10
N	4	3	2	3	4	5	5	6	7	8	9
E	5	4	3	3	4	4	5	6	7	8	9
N	6	5	4	4	4	5	5	6	7	8	9
T	7	6	5	5	5	4	5	6	7	8	9
I	8	7	6	6	6	5	5	6	7	8	9
A	9	8	7	7	7	6	6	6	6	7	8
L	10	9	8	8	8	7	7	7	7	6	7
	11	10	9	8	9	8	8	8	8	7	6

# Shortest paths



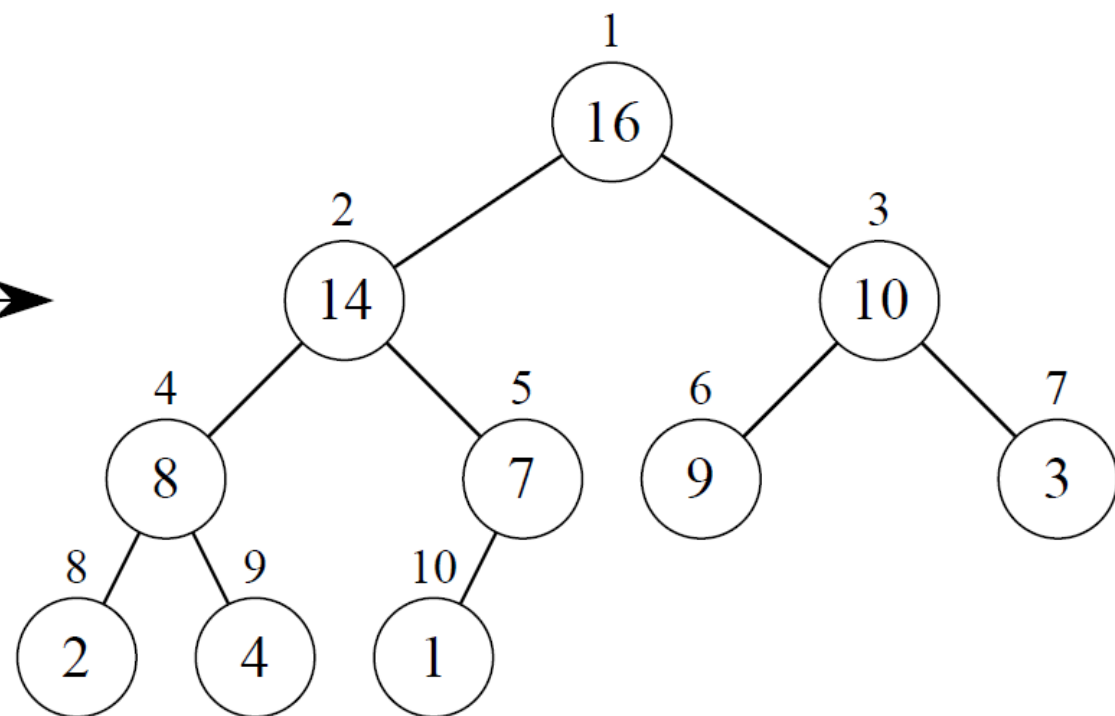
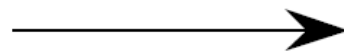
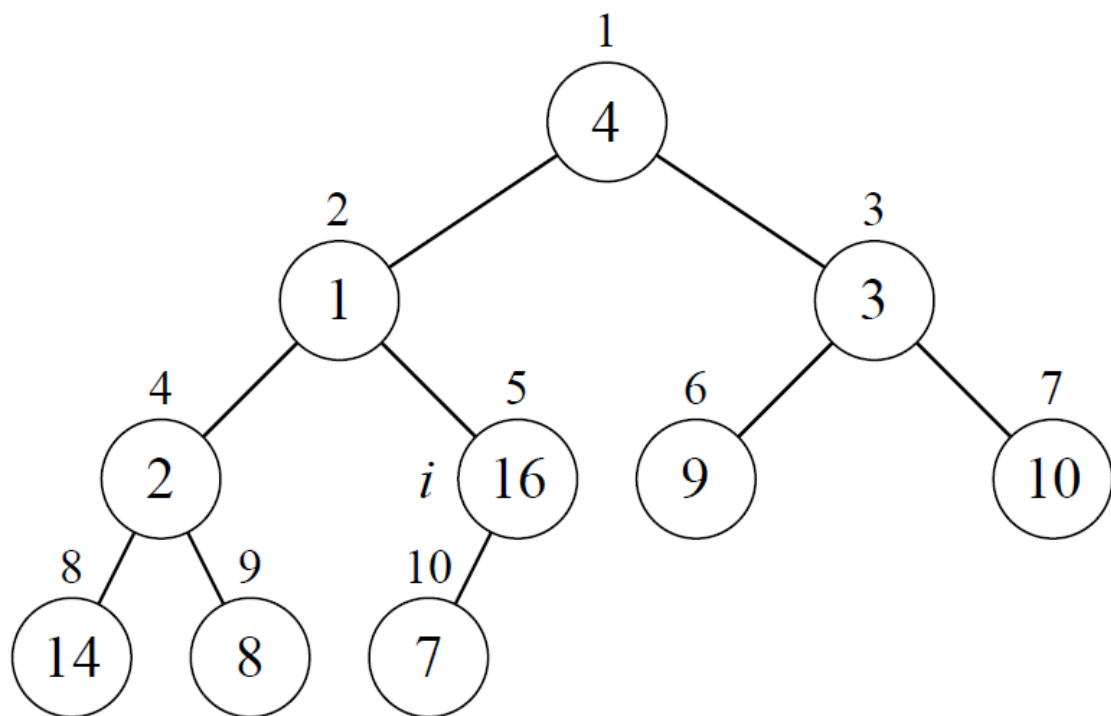
# Bellman-Ford



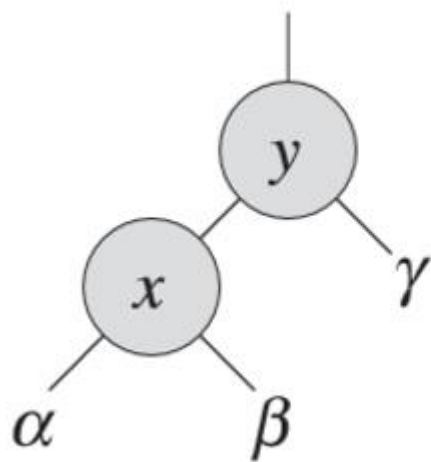
	Iteration							
Node	0	1	2	3	4	5	6	7
S	0	0	0	0	0	0	0	0
A	$\infty$	10	10	5	5	5	5	5
B	$\infty$	$\infty$	$\infty$	10	6	5	5	5
C	$\infty$	$\infty$	$\infty$	$\infty$	11	7	6	6
D	$\infty$	$\infty$	$\infty$	$\infty$	$\infty$	14	10	9
E	$\infty$	$\infty$	12	8	7	7	7	7
F	$\infty$	$\infty$	9	9	9	9	9	9
G	$\infty$	8	8	8	8	8	8	8

# build-max-heap

	1	2	3	4	5	6	7	8	9	10
$A$	4	1	3	2	16	9	10	14	8	7



# tree rotations



LEFT-ROTATE( $T, x$ )

.....

.....

RIGHT-ROTATE( $T, y$ )

