Core Data Structures
Graphs

(correction of the course exercise)

1. Graph
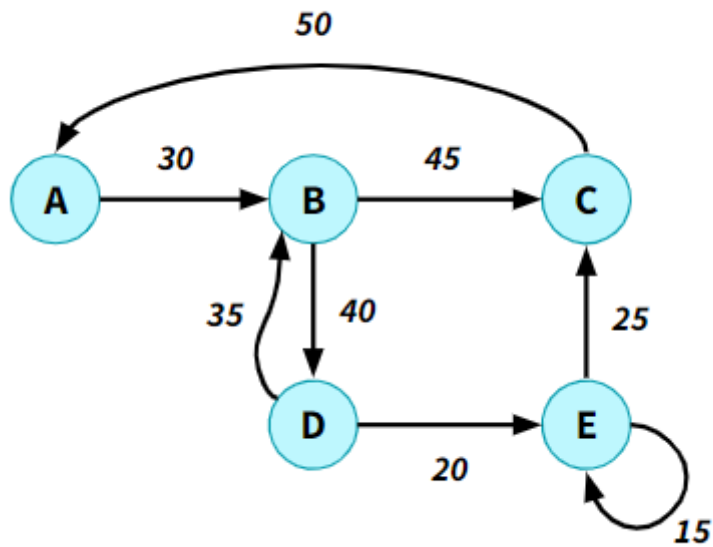
2. Adjacency Matrix and List

	A	B	C	D	E
A	0	30	0	0	0
B	0	0	45	40	0
C	50	0	0	0	0
D	0	35	0	0	20
E	0	0	25	0	15

City A → [('B', 30)]

City B → [('C', 45), ('D', 40)]

City C → [('A', 50)]

City D → [('E', 20), ('B', 35)]

City E → [('C', 25), ('E', 15)]

3. Path Matrix

	A	B	C	D	E
A	0	30	75	70	90
B	95	0	45	40	60
C	50	80	0	120	140
D	95	35	45	0	20
E	75	105	25	145	15