## Pertemuan 14 GRAPH

# Algoritma dan Struktur Data

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#### Latihan Soal Latihan 1

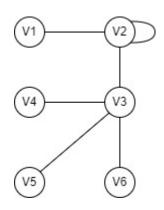
### Ubah matrix berikut ke dalam bentuk graf!

a.		V1	V2	V3	V4	V5	V6
	V1	0	1	0	0	0	0
	V2	1	1	1	0	0	0
	V3	0	1	0	1	1	1
	V4	0	0	1	0	0	0
	V5	0	0	1	0	0	0
	V6	0	0	1	0	0	0

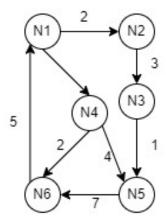
b.		N1	N2	N3	N4	N5	N6
	N1	0	2	0	6	0	0
	N2	0	0	3	0	0	0
	N3	0	0	0	0	1	0
	N4	0	0	0	0	4	2
	N5	0	0	0	0	0	7
	N6	5	0	0	0	0	0

#### Jawab:

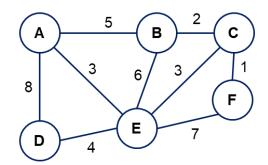
a.



b.



Latihan 3 Perhatikan graph berikut!



a. Ubahlah graph tersebut ke dalam bentuk adjacency matrix!

	A	В	C	D	E	F
A	0	5	0	8	3	0
В	5	0	2	0	6	0
C	0	2	0	0	3	1
D	8	0	0	0	4	0
E	3	6	3	4	0	7
F	0	0	1	0	7	0

b. Temukan semua path dari A ke F!

- 
$$A \rightarrow B \rightarrow C \rightarrow F$$

- 
$$A \rightarrow B \rightarrow E \rightarrow F$$

- 
$$A \rightarrow B \rightarrow E \rightarrow C \rightarrow F$$

- 
$$A \rightarrow B \rightarrow C \rightarrow E \rightarrow F$$

- 
$$A \rightarrow E \rightarrow F$$

- 
$$A \rightarrow E \rightarrow B \rightarrow C \rightarrow F$$

- 
$$A \rightarrow E \rightarrow C \rightarrow F$$

- 
$$A \rightarrow D \rightarrow E \rightarrow F$$

- 
$$A \rightarrow D \rightarrow E \rightarrow B \rightarrow C \rightarrow F$$

- 
$$A \rightarrow D \rightarrow E \rightarrow C \rightarrow F$$

c. Tentukan shortest path dari A ke F!

- 
$$A \rightarrow E \rightarrow C \rightarrow F$$