SOSNA TARIKU

①

② A, NO, there is no path

B, YES

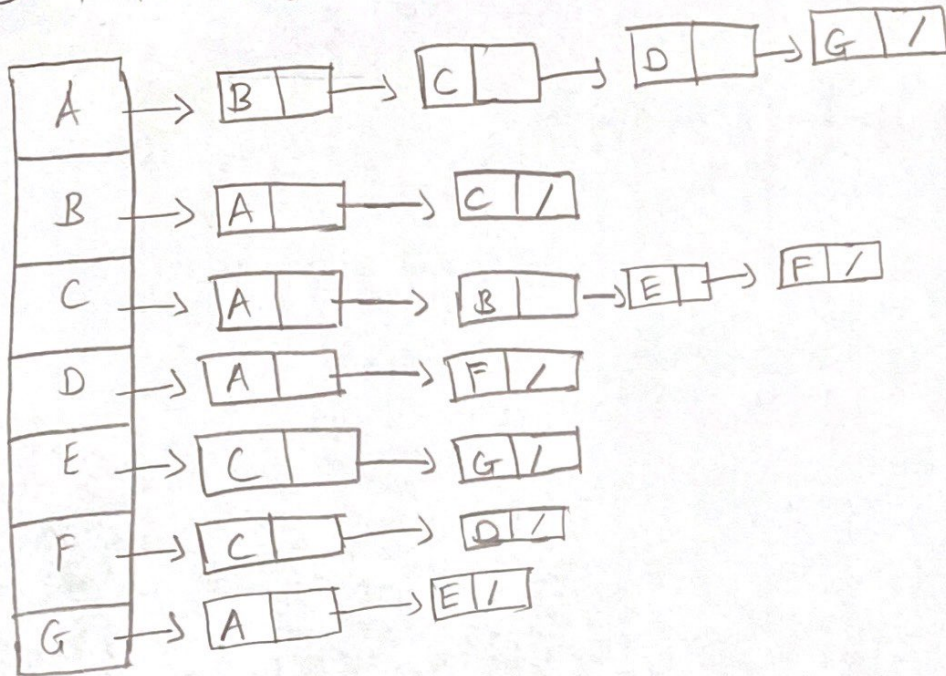C, Texas

③ A, the adjacency matrix

Alaska	O	O	O	O	1	O	O
California	O	O	O	O	O	O	O
Hawaii	1	1	O	1	O	1	O
New York	O	O	O	O	O	O	O
Oregon	O	O	O	O	O	O	O
Texas	O	O	1	O	O	O	1
Vermont	1	1	O	O	O	O	O

③ b, The Adjacency list

A	→ B → C → D → G /	
B	→ A → C /	
C	→ A → B → E → F /	
D	→ A → F /	
E	→ C → G /	
F	→ C → D /	
G	→ A → E /	

④a c,) E G A D F C B

④b d, All are breadth first transversals

⑤ Atl to Chicago = 2800

Atl to Austin = 2100
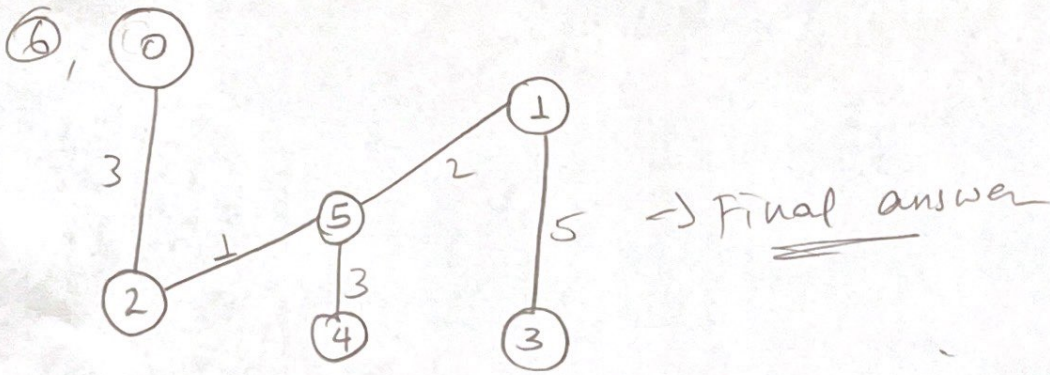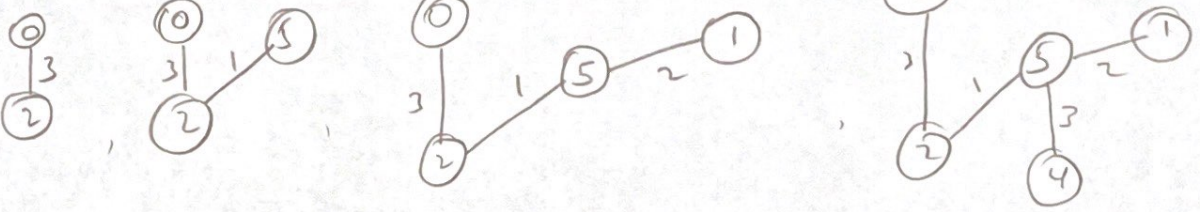
Atl to Denver = 2680

Atl to Houston = 800
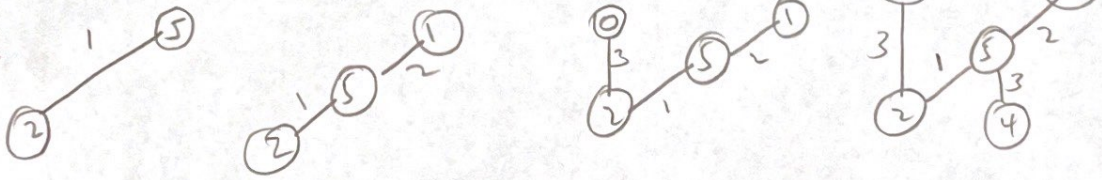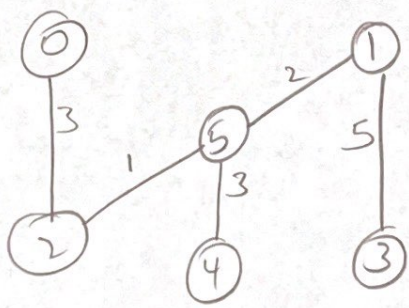
Atl to Dallas = 1900

Atl to Washington = 600

6.

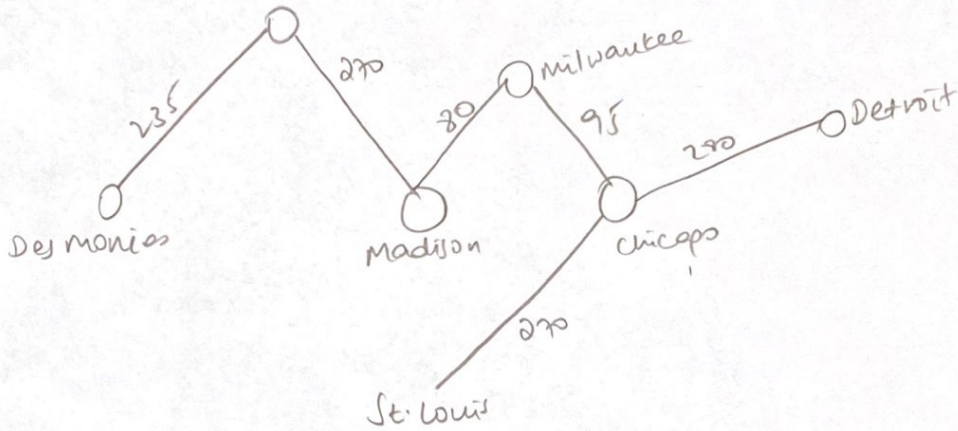

→ Final answer

Steps:

7. Steps:

Final answer:

⑧

Des Moines — 235 — (top node) — 270 — Madison — 80 — Milwaukee — 95 — Chicago — 290 — Detroit; St. Louis — 270 — Chicago

⑨ $0 \to 7 \to 1 \to 2 \to 5 \to 6 \to 4 \to 8 \to 3 \to 9$

⑩,

Start

Discrete Math

Programming 1

Programming 2

Computer Organization

Algorithms

High-level languages

Operating Systems

Theory Computation

Senior Seminar

Compilers

END