Câu 1:

Đếm các bậc của đỉnh:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | Đỉnh a | Đỉnh b | Đỉnh c | Đỉnh d | Đỉnh e | Đỉnh f | Đỉnh g |
| 5.1 | 3 | 4 | 4 | 4 | 2 | 5 | 2 |
| 5.2 | 5 | 4 | 4 | 5 | 2 | 6 |  |
| 5.3 | 5 | 6 | 4 | 4 | 4 | 3 |  |
| 5.6 | 3 | 2 | 1 | 1 | 1 | 1 |  |

Câu 2:

Ma trận kề của 5.1:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 5.1 | A | B | C | D | E | F | G |
| A | 0 | 1 | 1 | 1 |  |  |  |
| B | 1 | 0 |  |  | 1 | 1 |  |
| C | 1 |  | 0 |  |  | 1 |  |
| D | 1 |  |  | 0 |  | 1 | 1 |
| E |  | 1 |  |  | 0 |  |  |
| F |  | 1 | 1 | 1 |  | 0 |  |
| G |  |  |  | 1 |  |  | 0 |

Ma trận kề của 5.6:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 5.6 | A | B | C | D | E | F |
| A | 0 | 1 | 1 | 1 |  |  |
| B | 1 | 0 | 1 |  | 1 |  |
| C |  |  | 0 | 1 | 1 |  |
| D |  |  |  | 0 | 1 |  |
| E |  |  |  |  | 0 | 1 |
| F |  | 1 |  |  |  | 0 |

Ma trận kề của ví dụ 5.7:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| 5.7 | A | B | C | D | E | F |
| A | 0 | 110 | 90 | 100 |  |  |
| B | 110 | 0 | 50 |  | 55 | 80 |
| C | 90 | 50 | 0 | 40 | 80 |  |
| D | 100 |  | 40 | 0 | 60 |  |
| E |  | 55 | 80 | 60 | 0 | 70 |
| F |  | 80 |  |  | 70 | 0 |

Ma trận kề của ví dụ 5.11:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5.11 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 1 | 0 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |
| 2 | 1 | 0 |  |  |  |  | 1 |  |  |  |  |  |  |  |
| 3 | 1 |  | 0 |  |  | 1 |  |  |  |  |  |  |  |  |
| 4 | 1 |  |  | 0 | 1 |  |  |  |  |  |  |  |  |  |
| 5 |  |  |  | 1 | 0 |  |  |  |  | 1 | 1 |  |  |  |
| 6 |  |  | 1 |  |  | 0 |  |  |  |  |  |  |  |  |
| 7 |  | 1 |  |  |  |  | 0 | 1 | 1 |  |  |  |  |  |
| 8 |  |  |  |  |  |  | 1 | 0 |  |  |  |  | 1 | 1 |
| 9 |  |  |  |  |  |  | 1 |  | 0 |  |  |  |  |  |
| 10 |  |  |  |  | 1 |  |  |  |  | 0 |  | 1 |  |  |
| 11 |  |  |  |  | 1 |  |  |  |  |  | 0 |  |  |  |
| 12 |  |  |  |  |  |  |  |  |  | 1 |  | 0 |  |  |
| 13 |  |  |  |  |  |  |  | 1 |  |  |  |  | 0 |  |
| 14 |  |  |  |  |  |  |  | 1 |  |  |  |  |  | 0 |

Câu 3

5.1

A

B

C

D

NULL

First[0]

B

A

E

F

NULL

First[1]

C

A

NULL

First[2]

D

B

F

G

NULL

First[3]

E

B

C

NULL

First[4]

F

D

NULL

First[5]

G

D

NULL

First[6]

F

5.7

A

B

C

D

NULL

First[0]

NULL

F

E

C

A

B

First[1]

D

E

NULL

C

A

First[2]

B

D

A

C

E

NULL

First[3]

NULL

F

D

E

B

C

First[4]

NULL

E

F

B

First[5]

5.8

First[6]

D

First[5]

F

First[4]

NULL

F

B

First[3]

A

First[2]

A

First[1]

A

First[0]

NULL

D

C

B

A

B

C

D

E

G

NULL

F

E

C

D

B

F

NULL

C

F

G

NULL

NULL

G

E

D

C

B

F

NULL

5.11

NULL

NULL

NULL

NULL

NULL

NULL

9

8

NULL

11

NULL

NULL

NULL

14

8

First[13]

First[12]

8

13

12

10

First[11]

First[10]

5

11

First[9]

12

5

10

9

7

First[8]

First[7]

NULL

14

13

7

8

1

2

3

4

NULL

First[0]

2

1

7

First[1]

3

1

NULL

First[2]

4

1

5

First[3]

5

4

10

First[4]

6

3

NULL

First[5]

7

2

First[6]

6