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**CHƯƠNG V – BÀI TẬP**

**Bài 1: Đếm bậc của đỉnh**

\_5.1

d(A) = 3

d(B) = 4

d(C) = 4

d(D) = 4

d(E) = 2

d(F) = 5

d(G) = 2

\_5.3

d(A) = 5

d(B) = 4

d(C) = 4

d(D) = 5

d(E) = 2

d(F) = 6

\_5.4

d(A) = 5

d(B) = 6

d(C) = 4

d(D) = 4

d(E) = 4

d(F) = 3

\_5.6

d(A) = 0

d(B) = 2

d(C) = 2

d(D) = 2

d(E) = 3

d(F) = 1

**Bài 2: Ma trận kề**

\_5.1:

\_5.7:

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

\_5.6:

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

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

\_5.11:

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

**Bài 3: Danh sách kề:**

**VD 5.1:**

First[0]: A -> B -> C -> D -> NULL

First[1]: B -> A ->C -> F -> E -> NULL

First[2]: C-> A -> B -> D -> F -> NULL

First[3]: D-> A ->C -> F -> G -> NULL

First[4]: E -> B -> F -> NULL

First[5]: F -> B ->C -> D -> F -> NULL

First[6]: G->D->F->NULL

**VD 5.6:**

First[0]: A -> B -> C -> D -> NULL

First[1]: B -> C -> E -> NULL

First[2]: C-> D -> E-> NULL

First[3]: D-> E-> NULL

First[4]: E -> F -> NULL

First[5]: F -> B -> NULL

**VD 5.7:**

First[0]: A -> C -> D ->F -> NULL

First[1]: B -> D -> E -> NULL

First[2]: C-> A -> F -> NULL

First[3]: D-> A ->B-> E -> F -> NULL

First[4]: E -> B -> D -> NULL

First[5]: F -> A ->C -> D -> NULL

First[6]: G->NULL

**VD 5.11:**

First[0]: 1 -> 2 -> 3 -> 4 -> NULL

First[1]: 2 -> 1 -> 7 -> NULL

First[2]: 3-> 1 -> 6 -> NULL

First[3]: 4 -> 1 -> 5 -> NULL

First[4]: 5 -> 10 -> 11 -> NULL

First[5]: 6 -> 3 -> NULL

First[6]: 7 -> 8 -> 9 -> NULL

First[7]: 8 -> 7 -> 13 -> 14 -> NULL

First[8]: 9 -> 7 -> NULL

First[9]: 10 -> 5 -> 12 -> NULL

First[10]: 11 -> 5 -> NULL

First[11]: 12 -> 10 -> NULL

First[12]: 13 -> 8 -> NULL

First[13]: 14 -> 11 -> NULL