CS302 2015 Final – Answer Sheet

Name: _____

Email: _____ @ vols.utk.edu

Major: _____

Question 1: (Short Answer)

Question 2: Write the answer on the line provided.

Part A: _____   **Part D:** _____

Part B: _____   **Part E:** _____

Part C: _____   **Part F:** _____

Question 3: Implement the method. You are not allowed to add extra stuff to the class definition.

```
int MS::Maxseq_DP(int a, int b)
{



}
```
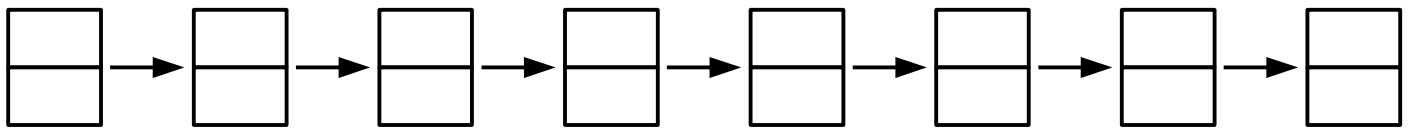
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Question 4: Circle the correct answer:

Part A: a b c d e f g h i

Part B: a b c d e f g h i

Part C: a b c d e f g h i

Part D: a b c d e f g h i

Part E: a b c d e f g h i

Part F: a b c d e f g h i

Part G: a b c d e f g h i

Part H: a b c d e f g h i

Part C:

Remove/Add/Change	From	To	Weight

Question 5:

Part A:

Part B:

Question 6, Part A: Write your answer here. The rest of question 6 is on the next page.

Question 6, Part B:

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Multimap (There may be more entries here than you need).

Nodes   Edges

| Id: 3 |
| Adj: ●● |
| D: |
| BE: ● |

| From: 3 |
| To: 5 |
| Weight: 1.4 |

| From: 3 |
| To: 7 |
| Weight: 4.8 |

| From: 0 |
| To: 3 |
| Weight: 5.2 |

| Id: 4 |
| Adj: ●● |
| D: |
| BE: ● |

| From: 4 |
| To: 6 |
| Weight: 1.3 |

| From: 4 |
| To: 7 |
| Weight: 2.2 |

| From: 2 |
| To: 4 |
| Weight: 3.7 |

| Id: 5 |
| Adj: ●●● |
| D: |
| BE: ● |

| From: 5 |
| To: 6 |
| Weight: 3.0 |

| From: 5 |
| To: 8 |
| Weight: 30.1 |

| From: 5 |
| To: 10 |
| Weight: 38.6 |

| Id: 6 |
| Adj: ●● |
| D: |
| BE: ● |

| From: 6 |
| To: 9 |
| Weight: 1.1 |

| From: 6 |
| To: 8 |
| Weight: 13.4 |

| From: 1 |
| To: 5 |
| Weight: 19.5 |

| Id: 7 |
| Adj: ● |
| D: |
| BE: ● |

| From: 7 |
| To: 10 |
| Weight: 5.9 |

| From: 2 |
| To: 7 |
| Weight: 8.1 |

| From: 0 |
| To: 6 |
| Weight: 18.7 |