Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

Assignment 2 – Graphs (V1)

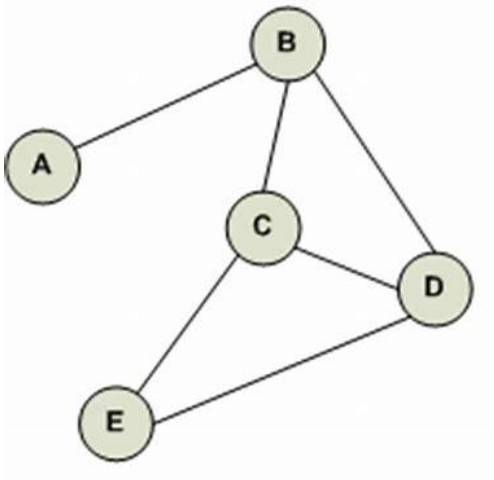
Please note that this is an individual assignment. Write your full name at the top in the space provided and record all your answers on this handout.

---

1. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Undirected Graph

- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____



	A	B	C	D	E
A					
B					
C					
D					
E					

Bonus, record the output for the following traversals:

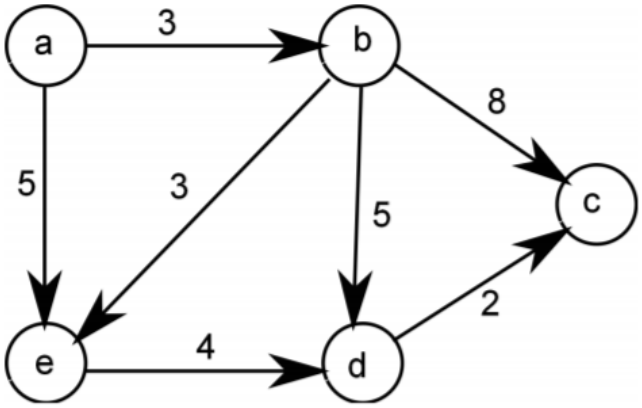
Breadth-first Search: _____

Depth-first Search: _____

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

2. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Directed Graph with Weights



- [a] _____
- [b] _____
- [c] _____
- [d] _____
- [e] _____

	a	b	c	d	e
a					
b					
c					
d					
e					

Evaluation:

Marks Available	Description

5
2.5
 	
+1
	Undirected Graph
	• Adjacency list representation
	• Adjacency matrix representation
	• **Bonus**
	  ○ Breadth-first traversal
	  ○ Depth-first traversal

5 2.5	**Directed Graph with Weights** • Adjacency list representation • Adjacency matrix representation
15	TOTAL

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

Assignment 2 – Graphs (V2)

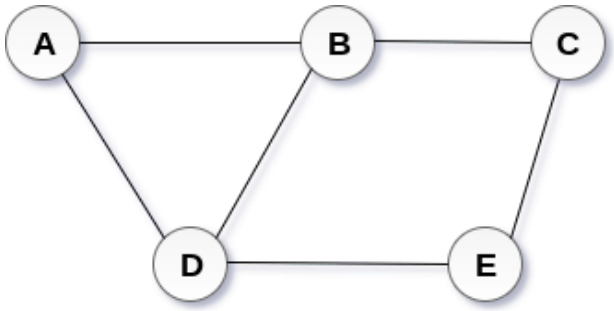
Please note that this is an individual assignment. Write your full name at the top in the space provided and record all your answers on this handout.

---

1. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Undirected Graph

- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____



	A	B	C	D	E
A					
B					
C					
D					
E					

Bonus, record the output for the following traversals:

Breadth-first Search: _____

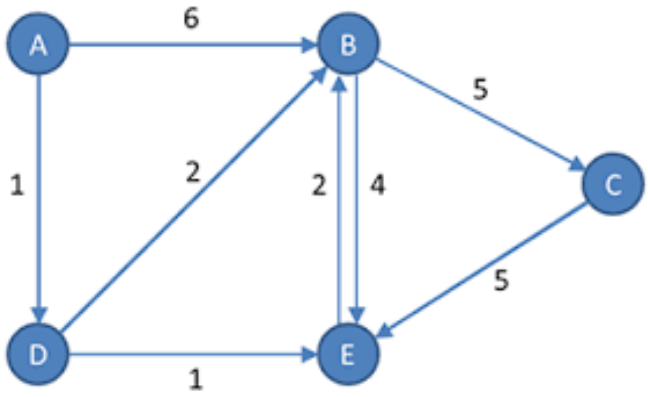
Depth-first Search: _____

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

2. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Directed Graph with Weights

- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____



	A	B	C	D	E
A					
B					
C					
D					
E					

Evaluation:

Marks Available	Description

5
2.5
 	
+1
	Undirected Graph
	• Adjacency list representation
	• Adjacency matrix representation
	• **Bonus**
	  ○ Breadth-first traversal
	  ○ Depth-first traversal

5 2.5	**Directed Graph with Weights** • Adjacency list representation • Adjacency matrix representation
15	TOTAL

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

Assignment 2 – Graphs (V3)

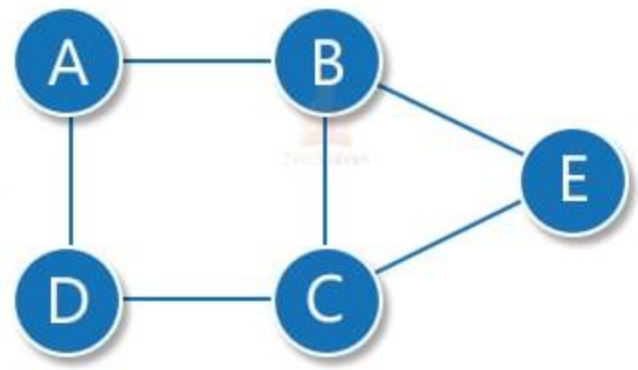
Please note that this is an individual assignment. Write your full name at the top in the space provided and record all your answers on this handout.

---

1. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Undirected Graph

- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____



	A	B	C	D	E
A					
B					
C					
D					
E					

Bonus, record the output for the following traversals:

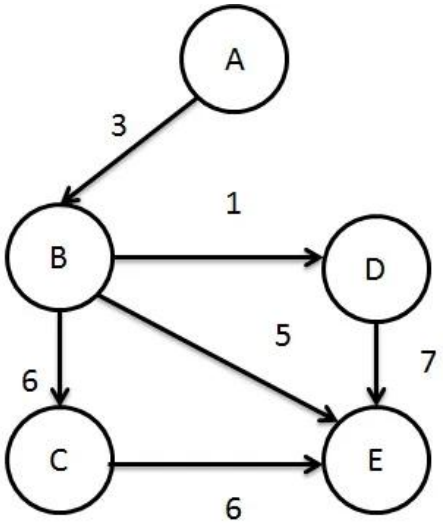
Breadth-first Search: _____

Depth-first Search: _____

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

2. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Directed Graph with Weights



- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____

	A	B	C	D	E
A					
B					
C					
D					
E					

Evaluation:

Marks Available	Description

5
2.5
 	
+1
	Undirected Graph
	• Adjacency list representation
	• Adjacency matrix representation
	• **Bonus**
	  ○ Breadth-first traversal
	  ○ Depth-first traversal

5 2.5	**Directed Graph with Weights** • Adjacency list representation • Adjacency matrix representation
15	TOTAL

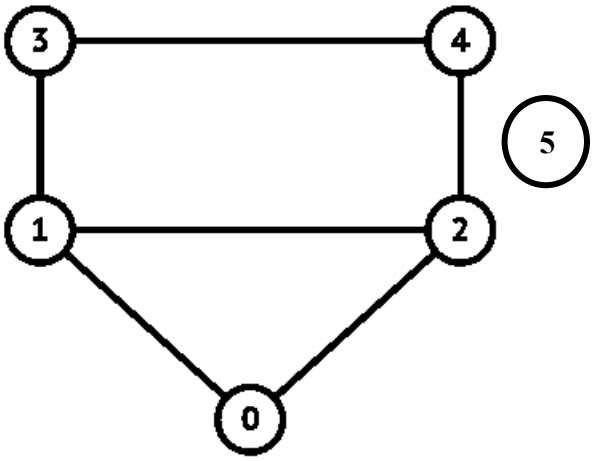
Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

Assignment 2 – Graphs (V4)

Please note that this is an individual assignment. Write your full name at the top in the space provided and record all your answers on this handout.

---

1. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)



Undirected Graph

- [1] _____
- [2] _____
- [3] _____
- [4] _____
- [5] _____

	1	2	3	4	5
1					
2					
3					
4					
5					

Bonus, record the output for the following traversals:

Breadth-first Search: _____

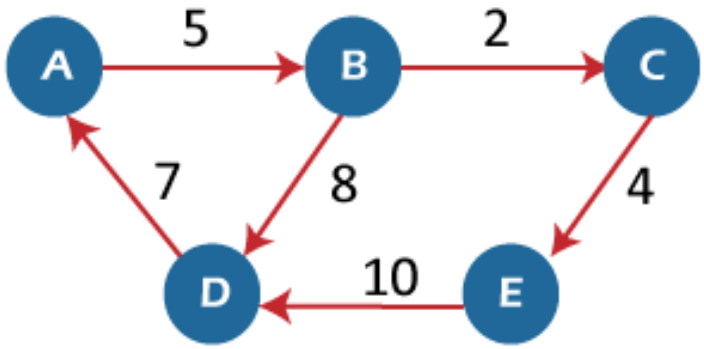
Depth-first Search: _____

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

2. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Directed Graph with Weights

- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____



	A	B	C	D	E
A					
B					
C					
D					
E					

Evaluation:

Marks Available	Description

5
2.5
 	
+1
	Undirected Graph
	• Adjacency list representation
	• Adjacency matrix representation
	• **Bonus**
	  ○ Breadth-first traversal
	  ○ Depth-first traversal

5 2.5	**Directed Graph with Weights** • Adjacency list representation • Adjacency matrix representation
15	TOTAL

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

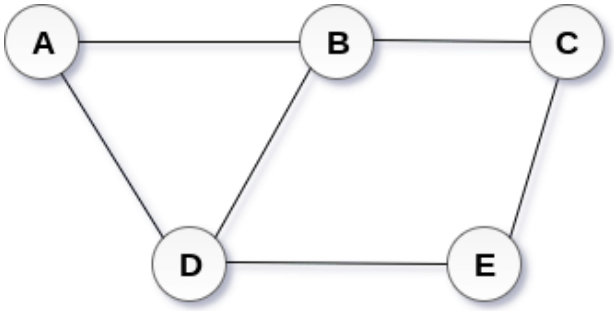
Assignment 2 – Graphs (V5)

Please note that this is an individual assignment. Write your full name at the top in the space provided and record all your answers on this handout.

---

1. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Undirected Graph



- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____

	A	B	C	D	E
A					
B					
C					
D					
E					

Bonus, record the output for the following traversals:

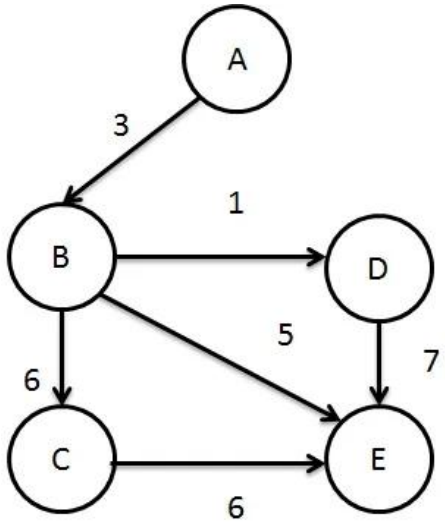
Breadth-first Search: _____

Depth-first Search: _____

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

2. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Directed Graph with Weights



- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____

	A	B	C	D	E
A					
B					
C					
D					
E					

Evaluation:

Marks Available	Description

5
2.5
 	
+1
	Undirected Graph
	• Adjacency list representation
	• Adjacency matrix representation
	• **Bonus**
	  ○ Breadth-first traversal
	  ○ Depth-first traversal

5 2.5	**Directed Graph with Weights** • Adjacency list representation • Adjacency matrix representation

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

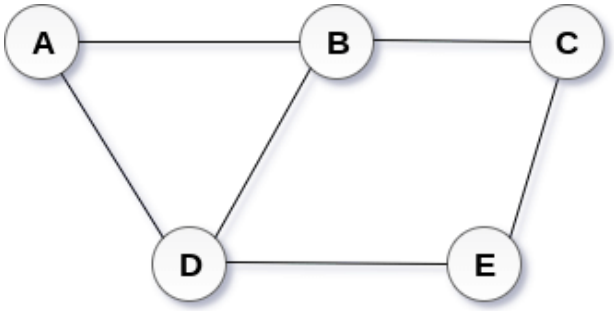
Assignment 2 – Graphs (V6)

Please note that this is an individual assignment. Write your full name at the top in the space provided and record all your answers on this handout.

---

3. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Undirected Graph



- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____

	A	B	C	D	E
A					
B					
C					
D					
E					

Bonus, record the output for the following traversals:

Breadth-first Search: _____

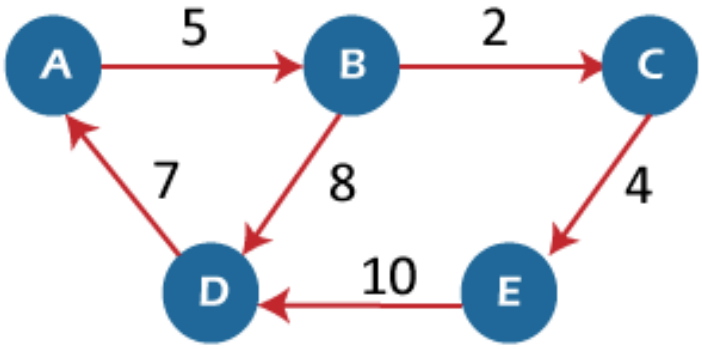
Depth-first Search: _____

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

4. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Directed Graph with Weights

- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____



	A	B	C	D	E
A					
B					
C					
D					
E					

Evaluation:

Marks Available	Description

5
2.5
 	
+1
	Undirected Graph
	• Adjacency list representation
	• Adjacency matrix representation
	• **Bonus**
	  ○ Breadth-first traversal
	  ○ Depth-first traversal

5 2.5	**Directed Graph with Weights** • Adjacency list representation • Adjacency matrix representation

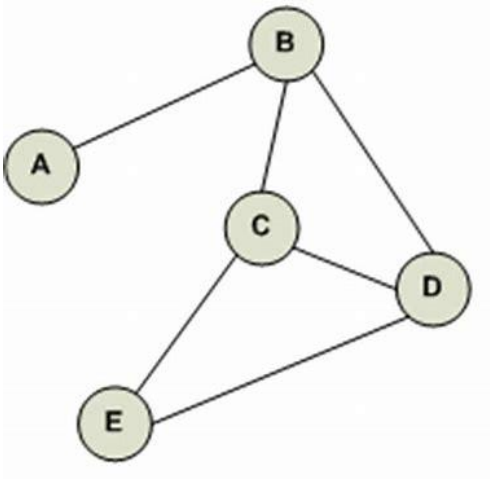
Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

Assignment 2 – Graphs (V7)

Please note that this is an individual assignment. Write your full name at the top in the space provided and record all your answers on this handout.

---

5. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)



Undirected Graph

- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____

	A	B	C	D	E
A					
B					
C					
D					
E					

Bonus, record the output for the following traversals:

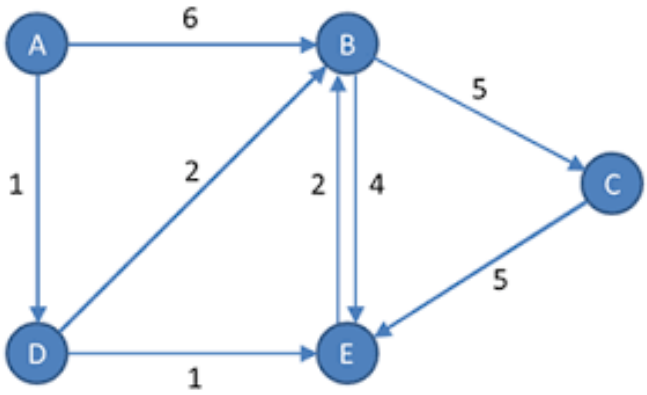
Breadth-first Search: _____

Depth-first Search: _____

Course:	**INFO-3135 C++ Algorithms and Data Structures**
Assignment:	**In Class Assignment 02– Graph Worksheet**
Student Name:	_____*ID:* _____

6. Represent the relationships that exist between Node objects for each graph below for both styles. Use the space provided to record your answers.
   - adjacency list
   - adjacency matrix (you can omit placeholder values)

Directed Graph with Weights



- [A] _____
- [B] _____
- [C] _____
- [D] _____
- [E] _____

	A	B	C	D	E
A					
B					
C					
D					
E					

Evaluation:

Marks Available	Description

5
2.5
 	
+1
	Undirected Graph
	• Adjacency list representation
	• Adjacency matrix representation
	• **Bonus**
	  ○ Breadth-first traversal
	  ○ Depth-first traversal

5 2.5	**Directed Graph with Weights** • Adjacency list representation • Adjacency matrix representation