Group Member:
Name: Guoqing Zhang
Email: zhang.g@ufl.edu
Gihub Account: eddiezgq
GitHub repository link: https://github.com/eddiezgq/Final_Project_Stock_Profit_Maximition

4 Milestone 1: Understanding the problems-solutions

4.1 Problem 1

Output:
(1, 2, 5, 15)
Explanation: Choosing the first stock (1-based indexing). Buying it in day 2nd day and selling it on the fifth day (1-based indexing), yields the maximum profit of 15 (sell price 16 minus buy price 1).

4.2 Problem 2

Output:
[(1, 3, 5), (2, 1, 3), (4, 1, 2)]
Explanation: Performing at most 3 transactions, selling the first stock on the 5th day after buying on 1st day, 2nd stock selling on the 3rd day buying on 1st day, 4th stock selling on 2nd day buying on 1st day
yields the maximum profit of 100 (transaction 1: 50 − 15 = 35, transaction 2: 30 − 10 = 20, transaction 3: 50 − 5 =45)

4.3 Problem 3

Output:
[(3, 1, 3), (2, 6, 7)]
Explanation: To achieve the maximum profit, buy 3rd stock on day 1, sell it on day 3. buy 2nd stock on day 6 and sell it on day 7 adhering to 2 days waiting period.
yields the maximum profit of 11 (transaction 1: 9 − 5 = 4, transaction 2: 8 − 1 = 7)

PROJECT TITLE	Final Project	**COURSE NAME**	COP4533
PROJECT MANAGER	Guoqing Zhang	**DATE**	6/15/25

WBS NUMBER	TASK TITLE	TASK OWNER	START DATE	DUE DATE	DURATION	PCT OF TASK COMPLETE	PHASE ONE			PHASE TWO		
							WEEK 1	WEEK 2	WEEK 3	WEEK 4	WEEK 5	WEEK 6
							M T W R F M T W R F M T W R F M T W R F M T W R F M T W R F					
1	**Milestone 1 Understanding the problems**											
1.1	Problem 1	Guoqing Zhang	6/8/25	6/15/25	7	100%						
1.2	Problem 2	Guoqing Zhang	6/8/25	6/15/25	7	100%						
1.3	Problem 3	Guoqing Zhang	6/8/25	6/15/25	7	100%						
1.4	TODO	Guoqing Zhang	6/8/25	6/15/25	7	100%						
2	**Milestone 2: Algorithm Design**	Guoqing Zhang										
2.1	Task - 1	Guoqing Zhang	6/16/25	7/20/25	4	22%						
2.2	Task - 2	Guoqing Zhang	6/16/25	7/20/25	4	16%						
2.3	Task - 3	Guoqing Zhang	6/16/25	7/20/25	4	0%						
2.4	Any two tasks between task - 4, task - 5, task - 6, task - 7.	Guoqing Zhang	6/16/25	7/20/25	4	0%						

2.5	TODO	Guoqing Zhang	6/16/25	7/20/25	4	0%
3	**Milestone 3: Algorithm Implementation**	Guoqing Zhang	7/21/25	8/3/25	**14**	0%
4	**Presentation**	Guoqing Zhang	7/29/25	8/3/25	**4**	0%