

## CS232 Exam: When to buy and sell stock

### Calculate the best day to buy and sell a stock

#### User Requirements:

Jabba the stock broker

Jabba the Hutt has been getting into stocks lately and needs your help. He wants to know when to buy and when to sell given a list of closing stock prices. Help him by calculating the best day to buy the stock and sell the stock to ensure maximum profit, i.e., buy low, sell high. The first day is day 1.

#### **Sample input:**

10 11 7 10 6

#### **Sample output:**

Jabba should buy on day three and sell on day four.

#### **Sample input:**

100 112 110 85 105 102 86 63 81 101 94 106 101 79 94 90 97

#### **Sample Output:**

Jabba should buy on day 8 and sell on day 12

#### Software requirements:

- You must use a vector to store the user data.
- You are NOT allowed to use an array for this project.