**Question 2: Best Time to Buy and Sell Stock**

#include <iostream>

#include <vector>

using namespace std;

int maxProfit(vector<int>& prices) {

int minPrice = INT\_MAX, maxProfit = 0;

for (int i = 0; i < prices.size(); i++) {

if (prices[i] < minPrice) {

minPrice = prices[i];

}

maxProfit = max(maxProfit, prices[i] - minPrice);

}

return maxProfit;

}

int main() {

vector<int> prices = {7,6,4,3,1,3};

int result = maxProfit(prices);

cout << "Maximum profit: " << result << endl;

return 0;

}