#include<bits/stdc++.h>

using namespace std;

int maxProfit(vector<int> &arr) {

int maxPro = 0;

int n = arr.size();

int minPrice = INT\_MAX;

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

minPrice = min(minPrice, arr[i]);

maxPro = max(maxPro, arr[i] - minPrice);

}

return maxPro;

}

int main() {

vector<int> arr = {7,1,5,3,6,4};

int maxPro = maxProfit(arr);

cout << "Max profit is: " << maxPro << endl;

}