

Harris Stock Prices

Writing puzzles hasn't made me rich. Maybe trading Harris stocks will.

Suppose we could access yesterday's stock prices as an array, where:

- The indices are the time in minutes past trade opening time, which was 9:30am local time.
- The values are the price in dollars of Harris stock at that time.

So if the stock cost \$200 at 10:30am, `stockPricesYesterday[60] = 200`.

Write an efficient function that takes `stockPricesYesterday` and returns the best profit I could have made from 1 purchase and 1 sale of 1 Harris stock yesterday.

For example:

```
int stockPricesYesterday[6] = {10, 7, 5, 8, 11, 9};  
size_t numStockPrices = 6;  
getMaxProfit(stockPricesYesterday, numStockPrices);  
// returns 6 (buying for $5 and selling for $11)
```

No "shorting"—you must buy before you sell. You may not buy and sell in the same time step (at least 1 minute must pass).