**SOLUTION**

class Solution {

public:

int maxProfit(vector<int>& prices) {

if(prices.empty()){

return 0;

}

int profit=0;

for(int i=0;i<prices.size()-1;i++){

if(prices[i+1]>prices[i]){

profit+=prices[i+1]-prices[i];

}

}

return profit;

}

};

**TIME COMPLEXITY : O(N)**

**SPACE COMPLEXITY : O(1)**