20. Stock buy and sell $\ \square$

Medium Accuracy: 39.53% Submissions: 38879 Points: 4

The cost of stock on each day is given in an array **A**[] of size **N**. Find all the days on which you buy and sell the stock so that in between those days your profit is maximum.

Note: There may be multiple possible solutions. Return any one of them.

Example 1:

```
Input:
N = 7
A[] = {100,180,260,310,40,535,695}
Output:
1
Explanation:
One possible solution is (0 3) (4 6)
We can buy stock on day 0,
and sell it on 3rd day, which will
give us maximum profit. Now, we buy
stock on day 4 and sell it on day 6.
```



```
while (i < n-1)
     //Finding Local Minima. Note that the limit of loop is (n-2)
                                                                      gridne munua
     //as we are comparing present element to the next element.
     while ((i < n-1) && (A[i+1] <= A[i]))_
        i++:
     //If we reach the end, we break the loop as no further
     //solution is possible.
                                                                       N's minima sints.
     if (i == n-1)
        break;
                                                                         ) word in de order
     //Storing the index of minima which gives the day of buying stock.
     sol[count].buy = i++;
                                                                South onthy of buying on a
     //Finding Local Maxima. Note that the limit of loop is (n-1)
     //as we are comparing present element to previous element.
     while ((i < n) && (A[i] >= A[i-1]))
        i++;
     //Storing the index of maxima which gives the day of selling stock.
     sol[count].sell = i-1;
     //Incrementing count of buy/sell pairs.
     count++;
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trad fred was limit:
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```

```
UIL I = 0,
while (i < n-1)
    //Finding Local Minima. Note that the limit of loop is (n-2)
   //as we are comparing present element to the next element.
    while ((i < n-1) && (A[i+1] <= A[i]))
        i++;
    //If we reach the end, we break the loop as no further
    //solution is possible.
   if (i == n-1)
       break:
    //Storing the index of minima which gives the day of buying stock.
                              - o Pen increment
    sol[count].buy ≠ i++;
    //Finding Local Maxima. Note that the limit of loop is (n-1)
   //as we are comparing present element to previous element.
    while ((i < n) && (A[i] >= A[i-1]))
       i++;
    //Storing the index of maxima which gives the day of selling stock.
    sol[count].sell = i-1;
    //Incrementing count of buy/sell pairs.
    count++;
```

Datirale the whole array i.e. on dement could is Tiel the rent element is smaller

```
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while (i < n-1)
    //Finding Local Minima. Note that the limit of loop is (n-2)
    //as we are comparing present element to the next element.
    while ((i < n-1) && (A[i+1] <= A[i]))
       i++;
    //If we reach the end, we break the loop as no further
    //solution is possible.
    if (i == n-1)
       break;
    //Storing the index of minima which gives the day of buying stock.
    sol[count].buy = i++;
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    //as we are comparing present element to previous element.
    while ((i < n) \&\& (A[i] >= A[i-1]))
       i++;
    //Storing the index of maxima which gives the day of selling stock.
    sol[count].sell = i-1;
    //Incrementing count of buy/sell pairs.
    count++;
```

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D'youling local numina

(i < n-1) c b r (i-1) <= r (i)

3) i = = n.1 _s avvæy ir derreamy rulu

Descrip this minimed in find buy day, then incremented i.

E mily went manuma

(i < n) 18 (b[;] > b[; +i])

Count ++1