

Advanced Programming Practices

Hackerrank Week-13

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Section: T2

Branch: CSE w/s OT

Ques 1: Minimum Loss

Problem:

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Prepare Certify Complete

Prepare > Algorithms > Search > Minimum Loss

Minimum Loss ★

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Lauren has a chart of distinct projected prices for a house over the next several years. She must buy the house in one year and sell it in another, and she must do so at a loss. She wants to minimize her financial loss.

Example

price = [20, 15, 8, 2, 12]

Her minimum loss is incurred by purchasing in year 2 at price[1] = 15 and reselling in year 5 at price[4] = 12. Return 15 - 12 = 3.

Function Description

Complete the minimumLoss function in the editor below.

minimumLoss has the following parameter(s):

- int price[n]: home prices at each year

Returns

- int: the minimum loss possible

Input Format

The first line contains an integer n , the number of years of house data.

The second line contains n space-separated long integers that describe each price[i].

Constraints

- $2 \leq n \leq 2 \times 10^5$
- $1 \leq \text{price}[i] \leq 10^6$
- All the prices are distinct.

Author: nabila_ahmed

Difficulty: Medium

Max Score: 35

Submitted By: 34653

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Code:

```
n = int(input())
arr = list(map(int, input().split()))
di = {arr[i]: i for i in range(n)}
arr = sorted(arr)
m = 10000000
for i in range(1, n):
    if di[arr[i]] < di[arr[i-1]]:
        m = min(m, arr[i] - arr[i-1])
print(m)
```

Output:

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Lines: 9 Col: 9

Upload Code as File

Test against custom input

Run Code

Submit Code



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Next Challenge

Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Test case 7

Compiler Message

Success

Input (stdin)

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3

5 10 3

Expected Output

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2

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