



La membresia esencial

Ahorra en gas, ahorra dinero, ahorra tiempo. Solo con la membresia de Walmart+, Walmart+

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[Interview Experience] [Courier] Roblox OA Four Algorithm Questions (with answers) | 2023 Software Engineer - Intern | Only look at dry goods

overseas experience roblox

direct

1 2 3 4 5 6 7 8 9 10



I found someone to push a friend, and she disappeared after she got the offer!

anonymous user

Anonymous User-113 2022-8-22 19:56:27

This building: 75% (3) 25% (1)

2022 (July-September) [General Undergraduate Internship @ Roblox](#) - Campus Career Fair - Online Written Test | Positive AverageOther | Fresh Graduates

Using Codesignal online four questions, the first two are Easy, the third is Medium, and the fourth is Hard, time is a bit tight!

There are questions of Q1, Q3, Q4 in the picture; Q2 did not take qaq

Q1: Find the maximum value and the end value

- traverse the array once

- $O(n)$

```
01. def solution(diffs):
02.     start = 1500
03.     global_max = start
04.     res = start
05.     acc = start
06.     for i in diffs:
07.         acc += i
08.         res += i
09.         if acc > global_max:
10.             global_max = acc
11.
12.     return [global_max, res]
```

copy code

Q2: [No photo qaq]

Q3: Product discount

- create three maps, record the current price, original price of each product, and how many discounts are left - traverse the



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```
01. def solution(diffs):  
  
02.     start = 1500  
  
03.     global_max = start  
  
04.     res = start  
  
05.     acc = start  
  
06.     for i in diffs:  
  
07.         acc += i  
  
08.         res += i  
  
09.         if acc > global_max:  
  
10.             global_max = acc  
  
11.  
  
12.     return [global_max, res]
```

copy code

Q4: Find all pairs that differ by diff

- Create a Map for each number i in the form of a tuple (number of i, pairs related to i)
- After each addition and deletion, you can manipulate the Map to complete up, O(1)
- total time O(n)

```
01. def solution(queries, diff):  
  
02.     dict = {} # [num_of_i, num_of_associated_pairs]  
  
03.     prev = 0  
  
04.     res = []  
  
05.     for query in queries:  
  
06.         i = int(query[1:])  
  
07.  
  
08.         if query[0] == '+':  
  
09.             if i not in dict:  
  
10.                 dict[i] = [1, 0]  
  
11.             else:  
  
12.                 dict[i][0] += 1  
  
13.  
  
14.             if i+diff in dict:  
  
15.                 dict[i+diff][1] += dict[i+diff][0]
```



```
18.         if i-diff in dict:

19.             dict[i-diff][1] += dict[i-diff][0]

20.             dict[i][1] += dict[i-diff][0]

21.             prev += dict[i-diff][0]

22.         else:

23.             if i+diff in dict:

24.                 prev -= dict[i+diff][0] * dict[i][0]

25.                 dict[i+diff][1] -= dict[i+diff][0] * dict[i][0]

26.             if i-diff in dict:

27.                 prev -= dict[i-diff][0] * dict[i][0]

28.                 dict[i-diff][1] -= dict[i-diff][0] * dict[i][0]

29.             dict[i][0] = 0

30.             dict[i][1] = 0

31.

32.         res.append(prev)

33.

34.     return res
```

copy code

Thanks!

ROBLOX
Roblox

★★★★★(3)

face scriptures
674

salary
61

push in
18

Evaluation
2

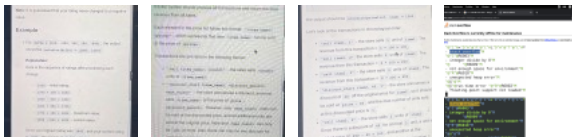
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AlanSkywalker +1

Thank you for sharing!



qjx +1

Very useful information!



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Why are Q1 and Q3 the same?

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