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IEEEExtreme 10.0 > Memory Management

Memory Management

locked

by IEEEExtreme

Problem

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Submitted 3 days ago • Score: 49.00

Status: Accepted

✓	Test Case #0	✓	Test Case #1	✓	Test Case #2
✓	Test Case #3	✓	Test Case #4	✓	Test Case #5
✓	Test Case #6	✓	Test Case #7	✓	Test Case #8
✓	Test Case #9	✓	Test Case #10	✓	Test Case #11

Submitted Code

Language: Python 3

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```
1 import math
2 from collections import OrderedDict
3
4 for _ in range(int(input())):
5     p, s, n = map(int, input().split())
6     odict = OrderedDict()
7     odict_lru = OrderedDict()
8     index = 0
9     num_fifo = 0
10    num_lru = 0
11    for i in range(n):
12        addres = int(input())
13        page = math.floor(addres/s)
14
15        if page not in odict:
16            if len(odict) >= p:
17                odict.popitem(last=False)
18                num_fifo += 1
19                odict.update({page:index})
20
21        if page not in odict_lru:
22            if len(odict_lru) >= p:
23                odict_lru.popitem(last=False)
24                num_lru += 1
25                odict_lru.update({page:index})
26        else:
27            odict_lru.pop(page)
28            odict_lru.update({page:index})
29
30        index += 1
31
32    print("yes" if num_lru < num_fifo else "no", num_fifo, num_lru)
33
```

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