

LeetCode

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May LeetCode Challenge!

Description

Solution

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Python solution with explanations and comments

zhuyinghua1203

★ 1190

Last Edit: October 18, 2018 11:00 AM

8.5K VIEWS

32

Simplified from solution to #158 in this post

i.e., easy to extend to multi-call case

```
def read(self, buf, n):
    idx = 0
    while n > 0:
        # read file to buf4
        buf4 = [""]*4
        l = read4(buf4)
        # if no more char in file, return
        if not l:
            return idx
        # write buf4 into buf directly
        for i in range(min(l, n)):
            buf[idx] = buf4[i]
            idx += 1
            n -= 1
    return idx
```

python

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```
def read(self, buf, n):
    i = 0
    while i < n:
        buf4 = ['', '', '', '']
        count = read4(buf4) # Read file into buf4.
        if not count: break # EOF
        count = min(count, n - i)
        buf[i:] = buf4[:count] # Copy from buf4 to buf.
        i += count
    return i
```

- I don't understand this question, also the answer, why write buf4 to buf while buf4 is list of empty strings and buf is a parameter? can you explain? Thank you !

9

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Reply
- flowingwater526

★ 12

January 13, 2016 2:09 PM

I think the actual file that read4 reads from is hidden from us. read4 reads the file and put it in buf4 and chars in buf4 are put into buf again.

4

Reply
- CG19

★ 15

September 17, 2019 10:34 AM

How can you extend this to Muti-call case?

1

Reply
- shilpamurabatte

★ 0

July 10, 2019 7:45 AM

I am getting a error "NameError: name 'read4' is not defined". Can someone please tell me what is causing this

0

Reply
- whglamrock

★ 269

June 2, 2016 5:17 AM

what is the step " buf4 = [""]*4 " for?

What are the parameter requirements for read4 API? I tried to change the buf4 into "buf4 = []" but error occurs. The question description said nothing about the input type for read4, how did you figure it out?

0

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Reply
- hxc170014

★ 0

January 24, 2020 9:58 PM

If I had this question in the interview, I would have spent the entire time thinking why I am here.

0

Reply
- dpgwang

★ 74

October 4, 2019 5:51 AM

while use n-=1 at the last second row?

0

Reply