

157. Read N Characters Given Read4

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The API: `int read4(char *buf)` reads 4 characters at a time from a file.

The return value is the actual number of characters read. For example, it returns 3 if there is only 3 characters left in the file.

By using the `read4` API, implement the function `int read(char *buf, int n)` that reads n characters from the file.


Note:

The `read` function will only be called once for each test case.

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C++



```
1 // Forward declaration of the read4 API.
2 int read4(char *buf);
3
4 class Solution {
5 public:
6     /**
7      * @param buf Destination buffer
8      * @param n    Maximum number of characters to read
9      * @return    The number of characters read
10    */
11    int read(char *buf, int n) {
12
13         Send Feedback \(mailto:admin@leetcode.com?subject=Feedback\)
14    };
15 }
```

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