Method read:

By using the read4 method, implement the method read that reads n characters from file and store it in the buffer array <code>buf</code> . Consider that you cannot manipulate <code>file</code> directly.

File file("abcde"); // File is "abcde", initially file pointer (fp) points to 'a' char[] buf4 = new char[4]; // Create buffer with enough space to store characters

we read 0 characters from the file, hence read4 returns 0

read4(buf4); // read4 returns 4. Now buf4 = "abcd", fp points to 'e'

read4(buf4); // read4 returns 1. Now buf4 = "e", fp points to end of file read4(buf4); // read4 returns 0. Now buf4 = "", fp points to end of file

The return value is the number of actual characters read.

Definition of read:

Parameters: char[] buf, int n Returns: int buf[] is a destination, not a source. You will need to write the results to buf[].

Note:

• Consider that you cannot manipulate the file directly. The file is only accessible for read4 but not for read.

 The read function will only be called once for each test case. You may assume the destination buffer array, buf, is guaranteed to have enough space for

storing n characters.

Example 1:

Input: file = "abc", n = 4 Output: 3

Explanation: After calling your read method, buf should contain "abc". We read a total of 3 characters from the file, so return 3. Note that "abc" is the file's content, not buf. buf is the destination buffer that you will have to write the results to.

Example 2: Input: file = "abcde", n = 5

total of 5 characters from the file, so return 5. Example 3:

Explanation: After calling your read method, buf should contain "abcde". We read a

Input: file = "abcdABCD1234", n = 12

Output: 12 Explanation: After calling your read method, buf should contain "abcdABCD1234". We read a total of 12 characters from the file, so return 12.

Example 4:

Input: file = "leetcode", n = 5 Output: 5

Explanation: After calling your read method, buf should contain "leetc". We read a total of 5 characters from the file, so return 5.

• 1 <= file.length <= 500

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file consist of English letters and digits.

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Constraints:

• 1 <= n <= 1000

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