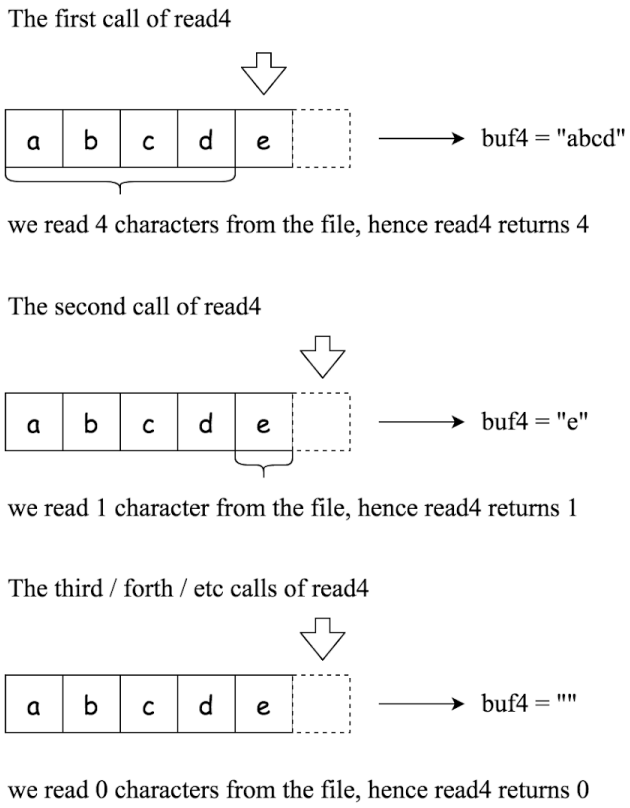
Given a file and assume that you can only read the file using a given method `read4`, implement a method to read *n* characters.
Method read4:
The API `read4` reads 4 consecutive characters from the file, then writes those characters into the buffer array `buf`.
The return value is the number of actual characters read.
Note that `read4()` has its own file pointer, much like `FILE *fp` in C.
Definition of read4:
```
   Parameter:  char[] buf4
    Returns:    int
```

Note: buf4[] is destination not source, the results from read4 will be copied to buf4[]

Below is a high level example of how `read4` works:




```
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
read4(buf4); // read4 returns 4. Now buf = "abcd", fp points to 'e'
read4(buf4); // read4 returns 1. Now buf = "e", fp points to end of file
read4(buf4); // read4 returns 0. Now buf = "", fp points to end of file
```

Method read:
By using the `read4` method, implement the method `read` that reads *n* characters from the file and store it in the buffer array `buf`. Consider that you cannot manipulate the file directly.

The return value is the number of actual characters read.
Definition of read:
   Parameters: char[] buf, int n
    Returns: int

Note: buf[] is destination not source, you will need to write the results to buf[]

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

Example 3:
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.

Note:

- Consider that you cannot manipulate the file directly, the file is only accesible 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.