

Java

```
/**  
 * The read4 API is defined in the parent class Reader4.  
 *      int read4(char[] buf4);  
 */  
  
public class Solution extends Reader4 {  
    /**  
     * @param buf Destination buffer  
     * @param n   Number of characters to read  
     * @return    The number of actual characters read  
     */  
    public int read(char[] buf, int n) {  
        }  
}
```

JavaScript

```
/**  
 * Definition for read4()  
 *  
 * @param {character[]} buf Destination buffer  
 * @return {number} The number of characters read  
 * read4 = function(buf4) {  
 *     ...  
 * };  
 */  
  
/**
```

```
* @param {function} read4()
* @return {function}
*/
var solution = function(read4) {
    /**
     * @param {character[]} buf Destination buffer
     * @param {number} n Number of characters to read
     * @return {number} The number of actual characters read
    */
    return function(buf, n) {
        ...
    };
}
```

TypeScript

```
/**
 * Definition for read4()
 * read4 = function(buf4: string[]): number {
 *     ...
 * };
 */

var solution = function(read4: any) {

    return function(buf: string[], n: number): number {
        ...
    };
}
```

C++

```
/**  
 * The read4 API is defined in the parent class Reader4.  
 *     int read4(char *buf4);  
 */  
  
class Solution {  
public:  
    /**  
     * @param buf Destination buffer  
     * @param n   Number of characters to read  
     * @return    The number of actual characters read  
     */  
    int read(char *buf, int n) {  
  
    }  
};
```

C#

```
/**  
 * The Read4 API is defined in the parent class Reader4.  
 *     int Read4(char[] buf4);  
 */  
  
public class Solution : Reader4 {  
    /**  
     * @param buf Destination buffer  
     * @param n   Number of characters to read  
     */
```

```
* @return      The number of actual characters read
*/
public int Read(char[] buf, int n) {

}
-----
```

Kotlin

```
/**
 * The read4 API is defined in the parent class Reader4.
 * fun read4(buf4:CharArray): Int {}
 */

class Solution:Reader4() {
    /**
     * @param  buf Destination buffer
     * @param  n   Number of characters to read
     * @return     The number of actual characters read
     */
    override fun read(buf:CharArray, n:Int): Int {
}
```

Go

```
/**
 * The read4 API is already defined for you.
 *
```

```
*     read4 := func(buf4 []byte) int
*
* // Below is an example of how the read4 API can be called.
* file := File("abcdefghijkl") // File is "abcdefghijkl", initially file pointer (fp) points to 'a'
* buf4 := make([]byte, 4) // Create buffer with enough space to store characters
* read4(buf4) // read4 returns 4. Now buf = ['a','b','c','d'], fp points to 'e'
* read4(buf4) // read4 returns 4. Now buf = ['e','f','g','h'], fp points to 'i'
* read4(buf4) // read4 returns 3. Now buf = ['i','j','k',...], fp points to end of file
*/
var solution = func(read4 func([]byte) int) func([]byte, int) int {
    // implement read below.
    return func(buf []byte, n int) int {
        }
}
```
