# 最长公共子序列

## 代码

function longestCommonSequence(s1, s2) {  
 const dp = [];  
  
 for (let i = 0; i < s1.length + 1; i++) {  
 dp[i] = Array(s2.length).fill(0);  
 }  
 for (let i = 1; i < s1.length + 1; i++) {  
 for (let j = 1; j < s2.length + 1; j++) {  
 if (s1[i - 1] === s2[j - 1]) {  
 dp[i][j] = dp[i - 1][j - 1] + 1;  
 } else {  
 dp[i][j] = Math.max(dp[i][j - 1], dp[i - 1][j]);  
 }  
 }  
 }  
 return dp[s1.length][s2.length];  
}  
  
function expect(actual) {  
 return {  
 toBe(expected) {  
 console.log(actual === expected, actual);  
 return expected === actual;  
 }  
 };  
}  
  
expect(longestCommonSequence("fosh", "fish")).toBe("fsh".length);  
expect(longestCommonSequence("fish", "hish")).toBe("ish".length);  
expect(longestCommonSequence("lucider", "lucifer")).toBe("lucier".length);  
expect(longestCommonSequence("hahaui", "hfui")).toBe("hui".length);  
expect(longestCommonSequence("sasa", "fgdfrsa")).toBe("sa".length);