

JS can be confusing

Problem: %96 7=28 7@C E9:D 492= :D iQx>A6C2E@C xF=:FD r26D2C s:GFDQ]

Given:

Hint:

Note:

Steps:

1) Open developer tools in your browser and search the sources.

```
1 <!doctype html>
2 <html>
3 <head>
4   <title>JSFiddle</title>
5   <script type="text/javascript" src="decrypt.js"></script>
6 </head>
7 <body>
8   <h2>What are you looking for?</h2>
9 </body>
10 </html>
11
```

2) We notice "decrypt.js". So, we download the js file and open it in a text editor. Obviously, it not readable without good indentation and punctuation.

```
/*
 * Date: 2009-01-21 20:42:16 -0500 (Wed, 21 Jan 2009)
 * Revision: 6158
 */

if(typeof jQuery=='undefined')({function(){var window=this,undefined,_jQuery=window.jQuery,_)
){return new jQuery.fn.init(selector,context)},quickExpr=/^([<]*(<[^\s]+>)[>]*$|^#([^\s-]+):
function(selector,context){selector=selector||document;if(selector.nodeType){this[0]=selector
selector==="string"){var match=quickExpr.exec(selector);if(match&&(match[1]||!context)){if(m
document.getElementById(match[3]);if(elem&&elem.id!=match[3])return jQuery().find(selector);
selector;return ret}}else return jQuery(context).find(selector)}else if(jQuery.isFunction(se
```

3) So, we beautify the js code with an online tool <http://jsbeautifier.org/>. Then, we can read the code.

```

/*!
 * jQuery JavaScript Library v1.3.1
 * http://jquery.com/
 *
 * Copyright (c) 2009 John Resig
 * Dual licensed under the MIT and GPL licenses.
 * http://docs.jquery.com/License
 *
 * Date: 2009-01-21 20:42:16 -0500 (Wed, 21 Jan 2009)
 * Revision: 6158
 */
if (typeof jQuery == 'undefined') {
  (function() {
    var window = this,
        undefined, _jQuery = window.jQuery,
        $ = window.$,
        jQuery = window.jQuery = window.$ = function(selector, context) {
          return new jQuery.fn.init(selector, context)
        },
        quickExpr = /^([<]*(<[^\s]+>)[>]*$|^#([^\s-]+):/,
        isSimple = /^.[^:#\[\.,]*$/;
    jQuery.fn = jQuery.prototype = {
      init: function(selector, context) {
        selector = selector || document;
        if (selector.nodeType) {

```

4) The code is too long. We need to focus onto important sections. The hint states “tncms”. So, we start searching ‘tncms’. This yields a few results for tncms but only section has what we need. Because the problem states “scramble”, search around the file and this piece of code appears interesting. It has both “scramble” and “tncms”.

```
tncms.unscramble = function(sInput) {  
    var sOutput = '';  
    for (var i = 0, c = sInput.length; i < c; i++) {  
        var nChar = sInput.charCodeAt(i);  
        if (nChar >= 33 && nChar <= 126) {  
            sTmp = String.fromCharCode(33 + ((nChar - 33) + 47) % 94);  
            sOutput += sTmp  
        } else {  
            sOutput += sInput.charAt(i)  
        }  
    }  
    return sOutput  
};
```

5) The code appears to unscramble an input. So, let's try to run this code. We open the development tool in browser and go to the console where we can run javascript code. Since the web page is loaded, the javascript code should be loaded too. We verify by typing “tncms.unscramble” in console...