# 爬虫 - JS 逆向 01 - 新X盟解密

### 什么是逆向:

逆向工程(又称逆向技术),是一种产品设计技术再现过程,即对一项目标产品进行逆向分析及研究,从而演绎并得出该产品的处理流程、组织结构、功能特性及技术规格等设计要素,以制作出功能相近,但又不完全一样的产品。逆向工程源于商业及军事领域中的硬件分析。其主要目的是在不能轻易获得必要的生产信息的情况下,直接从成品分析,推导出产品的设计原理。

逆向工程可能会被误认为是对知识产权的严重侵害,但是在实际应用上,反而可能会保护知识产权 所有者。例如在集成电路领域,如果怀疑某公司侵犯知识产权,可以用逆向工程技术来寻找证据。

# 爬虫 - JS 逆向 01 - 新X盟解密 定期练习 定期提高

# 网站地址:



卷烟订货商务平台



# 1.观察

需要账号、密码(废话)

# 2.打开开发者工具(右键 或者 F12)

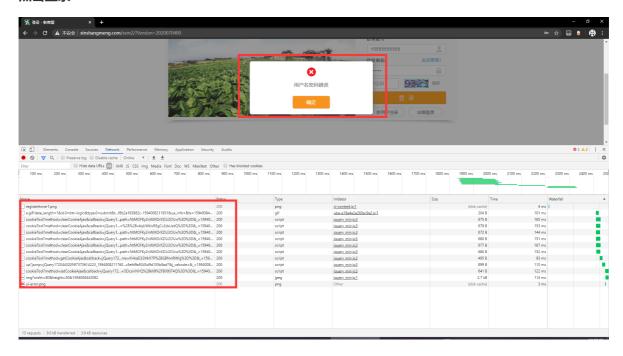


#### 输入账号 155 5555 5555

### 输入密码 123456

### 这样方便我们在特征中检索到

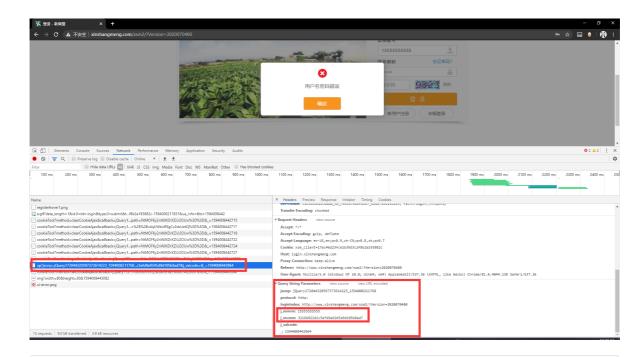
#### 点击登录



#### **Request URL:**

http://login.xinshangmeng.com/login/users/dologin/up?jsonp=jQuery172044320597373614223\_1 594008211760&protocol=http%3A&loginIndex=http%3A%2F%2Fwww.xinshangmeng.com%2Fxs m2%2F%3FVersion%3D2020070400&j\_mmrm=155555555558j\_mcmm=3216b822d1c5efd9a9245 d9d105b8ad7&j\_valcode=& =1594008442964

这里捕捉到了发送的请求 我们逐个查看 寻找登录的包



jsonp: jQuery172044320597373614223\_1594008211760

protocol: http:

loginIndex: http://www.xinshangmeng.com/xsm2/?version=2020070400

j\_mmrm: 1555555555

j\_mcmm: 3216b822d1c5efd9a9245d9d105b8ad7

j\_valcode:

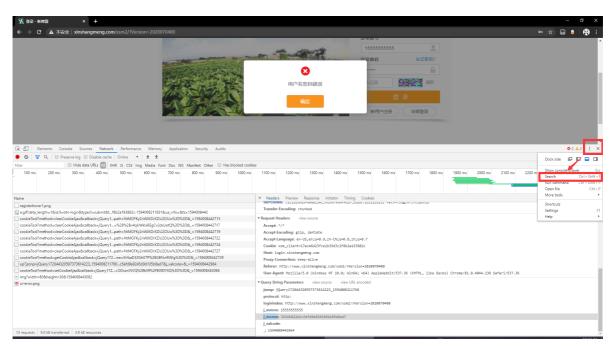
\_: 1594008442964

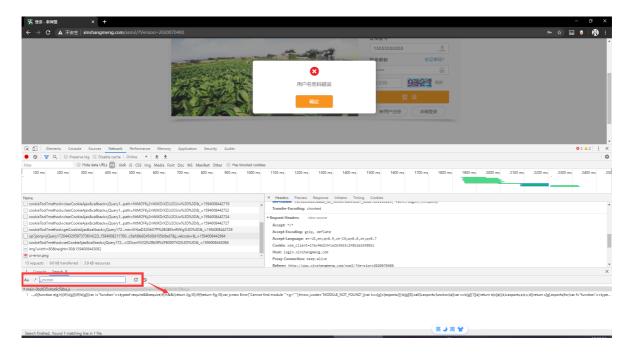
### 经过查看 我们很容易看出 这个包是用来登录的包

这里j\_mmrm显然就是我们输入的账号

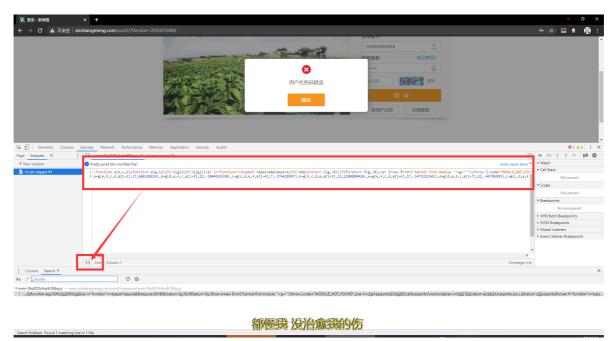
那么猜测一下 j\_mcmm 便是我们的密码 不过我们输入的是123456 这里却是一串码 说明它背后进行了加密

# 3.进行检索 查找加密方法



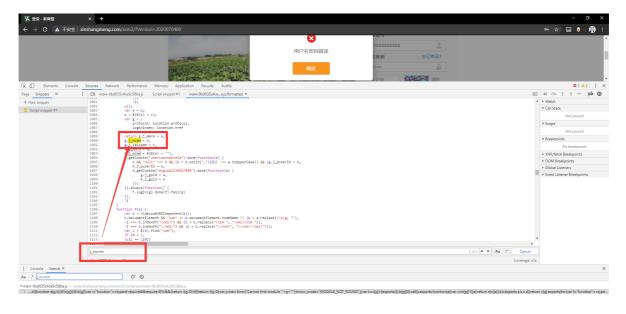


#### 我们输入进行回车 搜索到一个 这个结果很理想 我们直接点进去



### 这里的代码被折叠了 我们点击{}便可以格式代码

## 接着我们ctrl+F启动搜索 搜索刚才的 j\_mcmm 便可以定位到参数的位置



都怪我 没治愈我的伤

#### 我们稍微的预览一下代码 简单的看下代码的逻辑

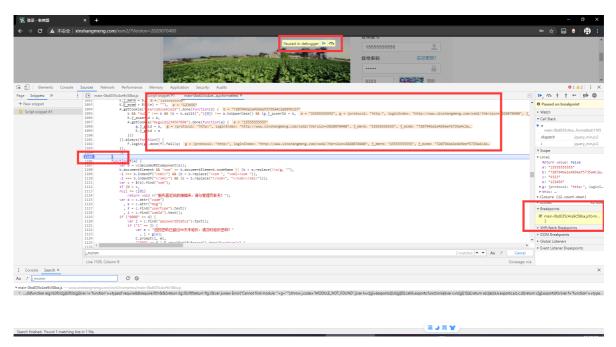
```
■ main-0bd035c4ce9c58ba.js
                                            Script snippet #1 main-0bd035c4ce...a.js:formatted ×
 1056
                    function d(a) {
 1057
                          a.focus()
 1058
                         D.hidePlaceholder(a[0])
 1059
                    function e() {
   var a = H.userName();
   if ("" == a)
        return L = !1,
 1060
 1061
 1062
 1063
                               C.alert("请输入用户名! ").done(function() { d(x)
 1064
                         d(x)
}),
!!;
var b = H.password();
if ("" == b)
return L = !1,
C.alert("清輸入密码! ").done(function() {
 1066
 1067
 1068
 1070
 1071
 1072
                                   d(y)
                         '';
'11;
var c = E.getValue();
if (E.isActive() && !c)
return L = !1,
C.alert("请输入验证码! ").done(function() {
 1074
 1075
 1076
 1077
 1078
 1079
                               }),
 1080
 1081
 1082
                         var e = b;
b = B(B(b) + c);
var g = {
   protocol: location.protocol,
 1083
 1084
 1085
 1086
 1087
1088
                               loginIndex: location.href
 1089
 1090
 j_mcmm
Line 1081, Column 20
```

```
if (E.isActive() && !c)
    return L = !1,
    C.alert("请输入验证码! ").done(function() {
        E.focus()
    }),
    !1;
u();
```

这里是对账户密码验证码是否为空进行判断 所以加密应该在下面 我们在函数末尾打上一个断点(点击左侧的数字 就可以在这行下一个断点)

```
■ main-0bd035c4ce9c58ba.js Script snippet #1 main-0bd035c4ce...a.js:formatted ×
    1078
                                C.alert("请输入验证码! ").done(function() {
    1079
                                     E.focus()
                                }),
    1081
                                !1;
                           u();
var e = b;
b = B(B(b) + c);
    1082
    1083
    1084
                           1085
    1086
    1087
                                loginIndex: location.href
    1088
                           return g.j_mmrm = a,
g.j_mcmm = b,
g.j_valcode = c,
    1089
    1090
     1091
                           g.j_valcode = c,
K.j_mmrm = a,
K.j_mmrm = B(B(e) + ""),
A.getCookie("usercomcookieId").done(function(b) {
    b && "null" !== b && (b = b.split(",")[0]) !== a.toUpperCase() && (g.j_puserId = b,
    K.j_puserId = b,
    A.getCookie("myguid1234567890").done(function(a) {
        g.j_guid = a,
        K.j_guid = a
})
    1092
    1094
    1095
    1096
    1097
1098
    1099
                                }))
    1100
                           }))
}).always(function() {
    F.login(g).done(f).fail(q)
    1101
   1104
1105
                       function f(a) {
   var b = v(decodeURIComponent(a));
                           1108
    1109
    1110
    1111 |
```

#### 接着我们再登录一次 程序运行到这里便会停下来



这便是断下来了 同时我们可以看到很多执行过的代码的数据 右侧也有断点相关的信息

```
| 1302 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 | 1303 |
```

#### 观察我们发现 1093行 e是我们的密码 是明文的 但是到了1094行 已经成了密文 所以我们可以猜测

```
K.j_mcmm = B(B(e) + ""),
```

#### 这是我们的加密函数

选中 B(B(e) + "") 我们可以看到函数的执行结果:

```
1074
                     !1;
1075
                 1076
                 if (E.isActive() && !c)
1077
                     return I = !1.
                     C.alert("请输入验证码! ").done(function() {
1078
1079
                        E.focus()
1080
                     }),
1081
                     !1;
1082
                 u();
                 var e = b; e = "123456", b = "720794ba1e4b9eef5735a4c2e89fbcb7"
1083
1084
                 b = B(B(b) + c); c = "9323"
1085
                 var g = { g = {protocol: "http:", loginIndex: "http://www.xinshangmeng.com/xsm2/?Version=20
                     protocol: location.protocol,
1086
1087
                     loginIndex: location.href
1088
                                                               rogin Index: "http://www.xinshangmeng.com/xsm2/
1089
                 ecorn g.j_mmrm = a, g = {prococol: nccp:, login
g.jj_mcmm = h. h = "720794ha1e4h9eef5735a4c2e89fbck
1090
                  .j_valcoc "3216b822d1c5efd9a9245d9d105b8ad7"
1091
                   1092
1093
1094
                                                                   b = "720794ba1e4b9eef5735a4c2e89fbcb7"
1095
                     b && "null" !== b && (b = b.split(",")[0]) !== a.toUpperCase() && (g.j_puserId = b, a =
                     K.j_puserId = b,
1096
1097
                     A.getCookie("myguid1234567890").done(function(a) { a = "15555555555"
1098
                         g.j_guid = a, g = {protocol: "http:", loginIndex: "http://www.xinshangmeng.com/xsm2
1099
                         K.j_guid = a
1100
                    }))
                 }).always(function() {
1101
                    F.login(g).done(f).fail(q) g = {protocol: "http:", loginIndex: "http://www.xinshangmeng
1102
                 }),
1103
1104
                 !1
1105
1106
             function f(a) {
1107
1100
j_mcmm
```

这就是我们想要的结果 粗略的看一下 这里是 B("123456") 然后把结果又

B(B("123456")) 这样的思路

我们选 B 便可以点进去查看他的函数内容:

```
main-0bd035c4ce9c58ba.js Script snippet #1 main-0bd035c4ce...a.js:formatted ×
 1621
 1622
                 c.decrypt = function(a) {
                      var b = f.parse(a)
 1623
                          c = f.stringify(b);
 1624
                      return d.decrypt(c, h, {
 1625
 1626
                           mode: g
 1627
                     }).toString(e).toString()
 1628
 1629
           }
           1630
 1631
                 "crypto-js/enc-base64": 4, "crypto-js/enc-utf8": 5,
 1632
 1633
 1634
 1635
            1636
 1637
 1638
 1639
 1640
                 function e(a, b) {
 1641
                       for (var c = \frac{1}{732584193}, d = \frac{-271733879}{271733879}, e = \frac{-1}{732584194}, f = \frac{271733878}{271733878}, 1 = 0; 1 < a.length; 1 += 16) {
 1642
                           var m = c
 1643
 1644
 1645
                           , p = f; c = g(c, d, e, f, a[1 + 0], 7, -680876936),
 1646
 1647
                            f = g(f, c, d, e, a[1 + 1], 12, -389564586),
                           e = g(e, f, c, d, a[1 + 2], 17, 606105819),
d = g(d, e, f, c, a[1 + 3], 22, -1044525330),
 1648
 1649
                           d = g(d, e, f, c, d[1 + 3], 22, -1044223330],
c = g(c, d, e, f, a[1 + 4], 7, -176418897),
f = g(f, c, d, e, a[1 + 5], 12, 1200080426),
e = g(e, f, c, d, a[1 + 6], 17, -1473231341),
d = g(d, e, f, c, a[1 + 7], 22, -45705983),
 1650
 1651
 1652
 1653
 1654 ◀ ■
 j_mcmm
Line 1637, Column 19
```

#### 这就是它的加密逻辑 调用了一大堆的方法 一层一层 俄罗斯套娃

```
function d(a) {
    return n(e(o(m(a + "{1#2$3%4(5)6@7!poeeww$3%4(5)djjkkldss}")), 32))
}
```

选中 m(a + "{1#2\$3%4(5)6@7!poeeww\$3%4(5)djjkkldss}") 会出现运行结果 (注意不要框选错了)

其他函数同理 选中对应的函数 就可以看到运行的结果

```
19: [function(a, b, c) {
        function d(a) {
            return n(e(o(m(a + "{1#2$3%4(5)6@7!poeeww$3%4(5)djjkkldss}")), 32))
        }
        function e(a, b) {
            for (var c = 1732584193, d = -271733879, e = -1732584194, f =
271733878, 1 = 0; 1 < a.length; 1 += 16) {
                var m = c
                  , n = d
                  , o = e
                  , p = f;
                c = g(c, d, e, f, a[1 + 0], 7, -680876936),
                f = g(f, c, d, e, a[1 + 1], 12, -389564586),
                e = g(e, f, c, d, a[1 + 2], 17, 606105819),
                d = g(d, e, f, c, a[1 + 3], 22, -1044525330),
                    ...省略
```

这里看到19: […]我们可以将这个函数整体拿下来

# 4.拿到方法 整理自己运行 扣方法 (注意拿到20:[]就行 不要多拿了)

```
19: [function(a, b, c) {
```

```
function d(a) {
            return n(e(o(m(a + "{1#2$3%4(5)6@7!poeeww$3%4(5)djjkkldss}")), 32))
        function e(a, b) {
            for (var c = 1732584193, d = -271733879, e = -1732584194, f = -1732584194
271733878, 1 = 0; 1 < a.length; 1 += 16) {
                var m = c
                  , n = d
                  , o = e
                  , p = f;
                c = g(c, d, e, f, a[1 + 0], 7, -680876936),
                f = g(f, c, d, e, a[1 + 1], 12, -389564586),
                e = g(e, f, c, d, a[1 + 2], 17, 606105819),
                d = g(d, e, f, c, a[1 + 3], 22, -1044525330),
                c = g(c, d, e, f, a[1 + 4], 7, -176418897),
                f = g(f, c, d, e, a[1 + 5], 12, 1200080426),
                e = g(e, f, c, d, a[1 + 6], 17, -1473231341),
                d = g(d, e, f, c, a[1 + 7], 22, -45705983),
                c = g(c, d, e, f, a[1 + 8], 7, 1770035416),
                f = g(f, c, d, e, a[1 + 9], 12, -1958414417),
                e = g(e, f, c, d, a[1 + 10], 17, -42063),
                d = g(d, e, f, c, a[1 + 11], 22, -1990404162),
                c = g(c, d, e, f, a[1 + 12], 7, 1804603682),
                f = g(f, c, d, e, a[1 + 13], 12, -40341101),
                e = g(e, f, c, d, a[1 + 14], 17, -1502002290),
                d = g(d, e, f, c, a[1 + 15], 22, 1236535329),
                c = h(c, d, e, f, a[1 + 1], 5, -165796510),
                f = h(f, c, d, e, a[1 + 6], 9, -1069501632),
                e = h(e, f, c, d, a[1 + 11], 14, 643717713),
                d = h(d, e, f, c, a[1 + 0], 20, -373897302),
                c = h(c, d, e, f, a[1 + 5], 5, -701558691),
                f = h(f, c, d, e, a[1 + 10], 9, 38016083),
                e = h(e, f, c, d, a[1 + 15], 14, -660478335),
                d = h(d, e, f, c, a[1 + 4], 20, -405537848),
                c = h(c, d, e, f, a[1 + 9], 5, 568446438),
                f = h(f, c, d, e, a[1 + 14], 9, -1019803690),
                e = h(e, f, c, d, a[1 + 3], 14, -187363961),
                d = h(d, e, f, c, a[1 + 8], 20, 1163531501),
                c = h(c, d, e, f, a[1 + 13], 5, -1444681467),
                f = h(f, c, d, e, a[1 + 2], 9, -51403784),
                e = h(e, f, c, d, a[1 + 7], 14, 1735328473),
                d = h(d, e, f, c, a[1 + 12], 20, -1926607734),
                c = i(c, d, e, f, a[1 + 5], 4, -378558),
                f = i(f, c, d, e, a[1 + 8], 11, -2022574463),
                e = i(e, f, c, d, a[1 + 11], 16, 1839030562),
                d = i(d, e, f, c, a[1 + 14], 23, -35309556),
                c = i(c, d, e, f, a[l + 1], 4, -1530992060),
                f = i(f, c, d, e, a[1 + 4], 11, 1272893353),
                e = i(e, f, c, d, a[1 + 7], 16, -155497632),
                d = i(d, e, f, c, a[1 + 10], 23, -1094730640),
                c = i(c, d, e, f, a[1 + 13], 4, 681279174),
                f = i(f, c, d, e, a[1 + 0], 11, -358537222),
                e = i(e, f, c, d, a[1 + 3], 16, -722521979),
                d = i(d, e, f, c, a[1 + 6], 23, 76029189),
                c = i(c, d, e, f, a[1 + 9], 4, -640364487),
                f = i(f, c, d, e, a[1 + 12], 11, -421815835),
                e = i(e, f, c, d, a[1 + 15], 16, 530742520),
                d = i(d, e, f, c, a[1 + 2], 23, -995338651),
```

```
c = j(c, d, e, f, a[1 + 0], 6, -198630844),
                f = j(f, c, d, e, a[1 + 7], 10, 1126891415),
                e = j(e, f, c, d, a[1 + 14], 15, -1416354905),
                d = j(d, e, f, c, a[1 + 5], 21, -57434055),
                c = j(c, d, e, f, a[1 + 12], 6, 1700485571),
                f = j(f, c, d, e, a[1 + 3], 10, -1894986606),
                e = j(e, f, c, d, a[1 + 10], 15, -1051523),
                d = j(d, e, f, c, a[1 + 1], 21, -2054922799),
                c = j(c, d, e, f, a[1 + 8], 6, 1873313359),
                f = j(f, c, d, e, a[1 + 15], 10, -30611744),
                e = j(e, f, c, d, a[1 + 6], 15, -1560198380),
                d = j(d, e, f, c, a[1 + 13], 21, 1309151649),
                c = j(c, d, e, f, a[1 + 4], 6, -145523070),
                f = j(f, c, d, e, a[l + 11], 10, -1120210379),
                e = j(e, f, c, d, a[1 + 2], 15, 718787259),
                d = j(d, e, f, c, a[1 + 9], 21, -343485551),
                c = k(c, m),
                d = k(d, n),
                e = k(e, o),
                f = k(f, p)
            }
            return new Array(c,d,e,f)
        }
        function f(a, b, c, d, e, f) {
            return k(1(k(k(b, a), k(d, f)), e), c)
        function g(a, b, c, d, e, g, h) {
            return f(b \& c \mid \sim b \& d, a, b, e, g, h)
        }
        function h(a, b, c, d, e, g, h) {
            return f(b \& d \mid c \& \sim d, a, b, e, g, h)
        }
        function i(a, b, c, d, e, g, h) {
            return f(b \land c \land d, a, b, e, g, h)
        function j(a, b, c, d, e, g, h) {
            return f(c \land (b \mid \sim d), a, b, e, g, h)
        function k(a, b) {
            var c = (65535 \& a) + (65535 \& b);
            return (a >> 16) + (b >> 16) + (c >> 16) << 16 | 65535 & c
        function 1(a, b) {
            return a << b | a >>> 32 - b
        }
        function m(a) {
            for (\text{var b} = \text{a.length}, c = \text{new Array}(b), d = 0; d < b; d++) {
                var e = a.charCodeAt(d);
                c[d] = 255 \& e
            }
            return c
        function n(a) {
            for (var b = "0123456789abcdef", c = "", d = 0; d < 4 * a.length;
d++)
                2] >> d % 4 * 8 & 15);
            return c
```

这里我们想把这个方法能够为我们所用 但是分析它的逻辑 再用别的语言实现 有点不太现实 所以我们按 照下面的方法 直接将它的代码跑起来 为我们服务

首先 我们观察 这个19里有两个部分 一个function一个{} 所以我们只要留下function主体就好 去掉 19:[] 与{} 结果如下:

```
function(a, b, c) {
        function d(a) {
            return n(e(o(m(a + "{1#2$3%4(5)6@7!poeeww$3%4(5)djjkkldss}")), 32))
        function e(a, b) {
           for (var c = 1732584193, d = -271733879, e = -1732584194, f =
271733878, 1 = 0; 1 < a.length; 1 += 16) {
                var m = c
                  , n = d
                  , o = e
                  , p = f;
                c = g(c, d, e, f, a[1 + 0], 7, -680876936),
                f = g(f, c, d, e, a[1 + 1], 12, -389564586),
                e = g(e, f, c, d, a[1 + 2], 17, 606105819),
                d = g(d, e, f, c, a[1 + 3], 22, -1044525330),
                c = g(c, d, e, f, a[1 + 4], 7, -176418897),
                f = g(f, c, d, e, a[1 + 5], 12, 1200080426),
                e = g(e, f, c, d, a[1 + 6], 17, -1473231341),
                d = g(d, e, f, c, a[1 + 7], 22, -45705983),
                c = g(c, d, e, f, a[1 + 8], 7, 1770035416),
                f = g(f, c, d, e, a[1 + 9], 12, -1958414417),
                e = g(e, f, c, d, a[1 + 10], 17, -42063),
                d = g(d, e, f, c, a[1 + 11], 22, -1990404162),
                c = g(c, d, e, f, a[1 + 12], 7, 1804603682),
                f = g(f, c, d, e, a[1 + 13], 12, -40341101),
                e = g(e, f, c, d, a[1 + 14], 17, -1502002290),
                d = g(d, e, f, c, a[1 + 15], 22, 1236535329),
                c = h(c, d, e, f, a[1 + 1], 5, -165796510),
                f = h(f, c, d, e, a[1 + 6], 9, -1069501632),
                e = h(e, f, c, d, a[1 + 11], 14, 643717713),
                d = h(d, e, f, c, a[1 + 0], 20, -373897302),
                c = h(c, d, e, f, a[1 + 5], 5, -701558691),
                f = h(f, c, d, e, a[1 + 10], 9, 38016083),
                e = h(e, f, c, d, a[1 + 15], 14, -660478335),
                d = h(d, e, f, c, a[1 + 4], 20, -405537848),
                c = h(c, d, e, f, a[1 + 9], 5, 568446438),
```

```
f = h(f, c, d, e, a[1 + 14], 9, -1019803690),
        e = h(e, f, c, d, a[1 + 3], 14, -187363961),
        d = h(d, e, f, c, a[1 + 8], 20, 1163531501),
        c = h(c, d, e, f, a[1 + 13], 5, -1444681467),
        f = h(f, c, d, e, a[1 + 2], 9, -51403784),
        e = h(e, f, c, d, a[1 + 7], 14, 1735328473),
        d = h(d, e, f, c, a[1 + 12], 20, -1926607734),
        c = i(c, d, e, f, a[1 + 5], 4, -378558),
        f = i(f, c, d, e, a[1 + 8], 11, -2022574463),
        e = i(e, f, c, d, a[1 + 11], 16, 1839030562),
        d = i(d, e, f, c, a[1 + 14], 23, -35309556),
        c = i(c, d, e, f, a[1 + 1], 4, -1530992060),
        f = i(f, c, d, e, a[1 + 4], 11, 1272893353),
        e = i(e, f, c, d, a[1 + 7], 16, -155497632),
        d = i(d, e, f, c, a[1 + 10], 23, -1094730640),
        c = i(c, d, e, f, a[1 + 13], 4, 681279174),
        f = i(f, c, d, e, a[1 + 0], 11, -358537222),
        e = i(e, f, c, d, a[1 + 3], 16, -722521979),
        d = i(d, e, f, c, a[1 + 6], 23, 76029189),
        c = i(c, d, e, f, a[1 + 9], 4, -640364487),
        f = i(f, c, d, e, a[1 + 12], 11, -421815835),
        e = i(e, f, c, d, a[1 + 15], 16, 530742520),
        d = i(d, e, f, c, a[1 + 2], 23, -995338651),
        c = j(c, d, e, f, a[1 + 0], 6, -198630844),
        f = j(f, c, d, e, a[1 + 7], 10, 1126891415),
        e = j(e, f, c, d, a[1 + 14], 15, -1416354905),
        d = j(d, e, f, c, a[1 + 5], 21, -57434055),
        c = j(c, d, e, f, a[1 + 12], 6, 1700485571),
        f = j(f, c, d, e, a[1 + 3], 10, -1894986606),
        e = j(e, f, c, d, a[1 + 10], 15, -1051523),
        d = j(d, e, f, c, a[1 + 1], 21, -2054922799),
        c = j(c, d, e, f, a[1 + 8], 6, 1873313359),
        f = j(f, c, d, e, a[1 + 15], 10, -30611744),
        e = j(e, f, c, d, a[1 + 6], 15, -1560198380),
        d = j(d, e, f, c, a[1 + 13], 21, 1309151649),
        c = j(c, d, e, f, a[1 + 4], 6, -145523070),
        f = j(f, c, d, e, a[1 + 11], 10, -1120210379),
        e = j(e, f, c, d, a[1 + 2], 15, 718787259),
        d = j(d, e, f, c, a[1 + 9], 21, -343485551),
        c = k(c, m),
        d = k(d, n),
        e = k(e, o),
        f = k(f, p)
   }
    return new Array(c,d,e,f)
function f(a, b, c, d, e, f) {
    return k(1(k(k(b, a), k(d, f)), e), c)
function g(a, b, c, d, e, g, h) {
    return f(b \& c \mid \sim b \& d, a, b, e, g, h)
function h(a, b, c, d, e, g, h) {
    return f(b \& d \mid c \& \sim d, a, b, e, g, h)
}
function i(a, b, c, d, e, g, h) {
    return f(b \land c \land d, a, b, e, g, h)
}
```

```
function j(a, b, c, d, e, g, h) {
           return f(c \land (b \mid \sim d), a, b, e, g, h)
       function k(a, b) {
           var c = (65535 \& a) + (65535 \& b);
           return (a >> 16) + (b >> 16) + (c >> 16) << 16 | 65535 & c
       }
       function 1(a, b) {
           return a << b | a >>> 32 - b
       function m(a) {
           for (var b = a.length, c = new Array(b), d = 0; d < b; d++) {
               var e = a.charCodeAt(d);
               c[d] = 255 \& e
           }
           return c
       }
       function n(a) {
           for (var b = "0123456789abcdef", c = "", d = 0; d < 4 * a.length;
d++)
               2] >> d % 4 * 8 & 15);
           return c
       }
        function o(a) {
           for (\text{var b} = 1 + (\text{a.length} + 8 >> 6), c = \text{new Array}(16 * b), d = 0;
d < 16 * b; d++)
               c[d] = 0;
           for (var e = 0; e < a.length; e++)
               c[e >> 2] = (255 \& a[e]) << e % 4 * 8;
           return c[e >> 2] |= 128 << e % 4 * 8,
           c[16 * b - 2] = 8 * a.length,
           C
       }
       c.hex_md5 = d
```

接着让这个函数变为自执行函数(可以百度JS自执行的几种方式)改完的模板如下

这样改完之后 我们执行发现 c.hex\_md5 = d 这行报错 我们看这行 其实就是通过 c.hex\_md5 把 d 方法给导出了

所以这行我们可以注释掉 用我们的 get\_code\_来导出就好了

# 5.改完代码如下:

```
var get_code_;
!function(a, b, c) {
        function d(a) {
            return n(e(o(m(a + "{1#2$3%4(5)607!poeeww$3%4(5)djjkkldss}")), 32))
        }
        function e(a, b) {
            for (var c = 1732584193, d = -271733879, e = -1732584194, f =
271733878, 1 = 0; 1 < a.length; 1 += 16) {
                var m = c
                  , n = d
                  , o = e
                  , p = f;
                c = g(c, d, e, f, a[1 + 0], 7, -680876936),
                f = g(f, c, d, e, a[1 + 1], 12, -389564586),
                e = g(e, f, c, d, a[1 + 2], 17, 606105819),
                d = g(d, e, f, c, a[1 + 3], 22, -1044525330),
                c = g(c, d, e, f, a[1 + 4], 7, -176418897),
                f = g(f, c, d, e, a[1 + 5], 12, 1200080426),
                e = g(e, f, c, d, a[1 + 6], 17, -1473231341),
                d = g(d, e, f, c, a[1 + 7], 22, -45705983),
                c = g(c, d, e, f, a[1 + 8], 7, 1770035416),
                f = g(f, c, d, e, a[1 + 9], 12, -1958414417),
                e = g(e, f, c, d, a[1 + 10], 17, -42063),
                d = g(d, e, f, c, a[1 + 11], 22, -1990404162),
                c = g(c, d, e, f, a[1 + 12], 7, 1804603682),
                f = g(f, c, d, e, a[1 + 13], 12, -40341101),
                e = g(e, f, c, d, a[1 + 14], 17, -1502002290),
                d = g(d, e, f, c, a[1 + 15], 22, 1236535329),
                c = h(c, d, e, f, a[1 + 1], 5, -165796510),
                f = h(f, c, d, e, a[1 + 6], 9, -1069501632),
                e = h(e, f, c, d, a[1 + 11], 14, 643717713),
                d = h(d, e, f, c, a[1 + 0], 20, -373897302),
                c = h(c, d, e, f, a[1 + 5], 5, -701558691),
                f = h(f, c, d, e, a[1 + 10], 9, 38016083),
                e = h(e, f, c, d, a[1 + 15], 14, -660478335),
                d = h(d, e, f, c, a[1 + 4], 20, -405537848),
                c = h(c, d, e, f, a[1 + 9], 5, 568446438),
                f = h(f, c, d, e, a[1 + 14], 9, -1019803690),
                e = h(e, f, c, d, a[1 + 3], 14, -187363961),
                d = h(d, e, f, c, a[1 + 8], 20, 1163531501),
                c = h(c, d, e, f, a[1 + 13], 5, -1444681467),
                f = h(f, c, d, e, a[1 + 2], 9, -51403784),
                e = h(e, f, c, d, a[1 + 7], 14, 1735328473),
                d = h(d, e, f, c, a[1 + 12], 20, -1926607734),
                c = i(c, d, e, f, a[1 + 5], 4, -378558),
                f = i(f, c, d, e, a[1 + 8], 11, -2022574463),
                e = i(e, f, c, d, a[1 + 11], 16, 1839030562),
                d = i(d, e, f, c, a[1 + 14], 23, -35309556),
                c = i(c, d, e, f, a[1 + 1], 4, -1530992060),
                f = i(f, c, d, e, a[1 + 4], 11, 1272893353),
                e = i(e, f, c, d, a[1 + 7], 16, -155497632),
                d = i(d, e, f, c, a[1 + 10], 23, -1094730640),
                c = i(c, d, e, f, a[1 + 13], 4, 681279174),
                f = i(f, c, d, e, a[1 + 0], 11, -358537222),
                e = i(e, f, c, d, a[1 + 3], 16, -722521979),
```

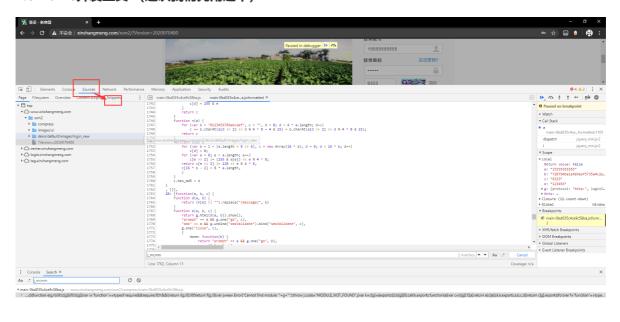
```
d = i(d, e, f, c, a[1 + 6], 23, 76029189),
        c = i(c, d, e, f, a[1 + 9], 4, -640364487),
        f = i(f, c, d, e, a[1 + 12], 11, -421815835),
        e = i(e, f, c, d, a[1 + 15], 16, 530742520),
        d = i(d, e, f, c, a[1 + 2], 23, -995338651),
        c = j(c, d, e, f, a[1 + 0], 6, -198630844),
        f = j(f, c, d, e, a[1 + 7], 10, 1126891415),
        e = j(e, f, c, d, a[1 + 14], 15, -1416354905),
        d = j(d, e, f, c, a[1 + 5], 21, -57434055),
        c = j(c, d, e, f, a[1 + 12], 6, 1700485571),
        f = j(f, c, d, e, a[1 + 3], 10, -1894986606),
        e = j(e, f, c, d, a[1 + 10], 15, -1051523),
        d = j(d, e, f, c, a[1 + 1], 21, -2054922799),
        c = j(c, d, e, f, a[1 + 8], 6, 1873313359),
        f = j(f, c, d, e, a[1 + 15], 10, -30611744),
        e = j(e, f, c, d, a[1 + 6], 15, -1560198380),
        d = j(d, e, f, c, a[1 + 13], 21, 1309151649),
        c = j(c, d, e, f, a[1 + 4], 6, -145523070),
        f = j(f, c, d, e, a[l + 11], 10, -1120210379),
        e = j(e, f, c, d, a[1 + 2], 15, 718787259),
        d = j(d, e, f, c, a[1 + 9], 21, -343485551),
        c = k(c, m),
        d = k(d, n),
        e = k(e, o),
        f = k(f, p)
    }
    return new Array(c,d,e,f)
function f(a, b, c, d, e, f) {
    return k(1(k(k(b, a), k(d, f)), e), c)
function g(a, b, c, d, e, g, h) {
    return f(b \& c \mid \sim b \& d, a, b, e, g, h)
}
function h(a, b, c, d, e, g, h) {
    return f(b \& d \mid c \& \sim d, a, b, e, g, h)
function i(a, b, c, d, e, g, h) {
    return f(b \land c \land d, a, b, e, g, h)
}
function j(a, b, c, d, e, g, h) {
    return f(c \land (b \mid \neg d), a, b, e, g, h)
function k(a, b) {
    var c = (65535 \& a) + (65535 \& b);
    return (a >> 16) + (b >> 16) + (c >> 16) << 16 | 65535 & c
function 1(a, b) {
    return a \ll b \mid a >>> 32 - b
}
function m(a) {
    for (var b = a.length, c = new Array(b), d = 0; d < b; d++) {
        var e = a.charCodeAt(d);
        c[d] = 255 \& e
    }
    return c
function n(a) {
```

```
for (var b = "0123456789abcdef", c = "", d = 0; d < 4 * a.length;
d++)
                                                                                      c += b.charAt(a[d >> 2] >> d % 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 * 8 + 4 & 15) + b.charAt(a[d >> 4 + 4 & 15) + b.cha
2] >> d % 4 * 8 & 15);
                                                                return c
                                           }
                                           function o(a) {
                                                                for (var b = 1 + (a.length + 8 >> 6), c = new Array(16 * b), d = 0;
d < 16 * b; d++)
                                                                                     c[d] = 0;
                                                                for (var e = 0; e < a.length; e++)
                                                                                    c[e >> 2] |= (255 & a[e]) << e % 4 * 8;
                                                                 return c[e >> 2] \mid = 128 << e % 4 * 8,
                                                                c[16 * b - 2] = 8 * a.length,
                                           }
                                            //c.hex_md5 = d
                                           get_code_ = d;
                     }()
```

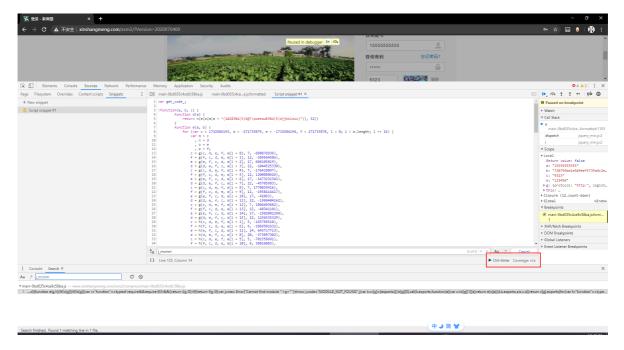
### 接着我们运行我们的代码

# 这里有几种方式

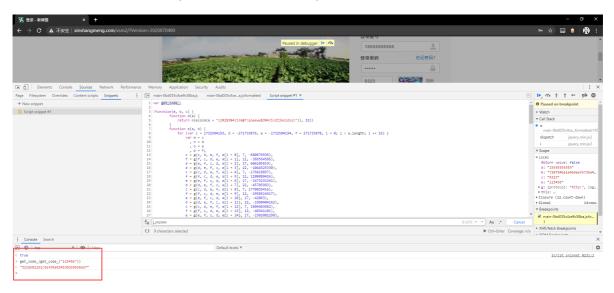
- 1.nodejs 自己搭建node服务 然后运行返回结果
- 2.console 直接将刚才的内容 粘贴到console里回车 (代码量较大的时候 可能会卡顿一点)
- 3.调试工具 下载一个调试工具进行调试
- 4.chrome开发工具 (这次我们先用这个)



打开 Snippets 面板 点击 New Snippets 创建一个新的脚本 将内容粘贴进去 接着 Ctrl + Enter 进行运行 或者如下点击运行



### 接着我们按照它的加密逻辑 (还记得吗 是执行了两次)



```
>> get_code_(get_code_("123456"))
>> "3216b822d1c5efd9a9245d9d105b8ad7"
```

直接调用 出现了 我们想要的加密结果 至此 逆向分析完毕 这样你就可以搭建一个nodejs服务 来进行模拟登陆了