```
int otherhardCode()

{
    int v0; // edx
    int v2; // [esp+4h] [ebp-14h] BYREF
    int v3[4]; // [esp+8h] [ebp-10h] BYREF

    getchar();
    puts("Enter your 2 numbers (separated by space) (option 2):");
    __isoc99_scanf("%d %d", v3, &v2);
    printf("Your input: %d %d\n", v3[0], v2);
    v3[1] = 9;
    if ( v3[0] == 9 && (v0 = funny_func(9, funny_seq[9]), v0 == v2) )
    return success_2();
else
    return failed();

**Total Compatible Compatible
```

$$\sqrt{3} = 9$$

 $\sqrt{0} = 4u - 1$ (always true)
 $\sqrt{0} = 2$

Let's Calculate VU; (v0 = funny_func(9, funny_seq[9])

```
rodata:08048B60
.rodata:08048B60 funny_seq
                                  db
                                  db
                                 db
                                  db
.rodata:08048B79
                                  db
                                  db
.rodata:08048B88 aYouScratchMyBa db 'You scratch my back and I',27h,'ll scratch yours',0
```

So 2 numbers une noed is 9 161

3)

```
1 int userpass()
3 size_t v0; // ebx
4 long double v2; // fst7
  size_t v3; // eax
  size_t v4; // edx
   char v5[9]; // [esp+1Ah] [ebp-2Eh]
   char v6[10]; // [esp+23h] [ebp-25h] BYREF
  char s[10]; // [esp+2Dh] [ebp-1Bh] BYREF
   char v8[5]; // [esp+37h] [ebp-11h] BYREF
   int i; // [esp+3Ch] [ebp-Ch]
   qmemcpy(v8, "cRVlg", sizeof(v8)); \vee \Diamond = \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc
   getchar();
   puts("Enter your username:");
   __isoc99_scanf("%[^\n]", s); -
   getchar();
   puts("Enter your password:");
   __isoc99_scanf("%[^\n]", v6);
   printf("Your input username: %s and password: %s\n", s, v6);
```

```
if ( strlen(s) != 9 )
    return failed();
v0 = strlen(s);
if ( v0 != strlen(v6) )
    return failed();
for ( i = 0; i <= 8; ++i )
{
    if ( i > 1 )
    {
        if ( i > 3 )
            v5[i] = v8[8 - i];
        else
            v5[i] = s[i + 2];
    }
    else
    {
        v5[i] = s[i + 5];
    }
}
```

```
systemProgramming / Lab4 / 😽 pwo_gen.py / ...
      username = input("---> Enter your username: ")
      # username = "399076724"
      v8 = "cRVlg" # random string
      newStr = ''
      for i in range(0, len(username)):
           if i > 1:
               if i > 3:
                   newStr += v8[8-i]
 11
               else:
 12
                   newStr += username[i+2]
 13
           else:
              newStr += username[i+5]
 15
      print("(+) New generated string: " + newStr)
```

```
for ( i = 0; ; ++i )
{
    v3 = strlen(s);
    if ( v3 <= i )
        break;
    v2 = ceil((double)((s[i] + v5[i]) / 2));
    if ( (long double)v6[i] != v2 )
        break;
}
v4 = strlen(s);
if ( v4 == i )
    return success_3();
else
    return failed();
}</pre>
```

```
from math import ceil
20
     pwd = ''
21
     i = 0
23
     while True:
         v3 = len(username)
25
         if v3 <= i:
26
             break
         v22 = ceil(float((ord(username[i]) + ord(newStr[i]))) // 2)
         pwd += chr(v22)
         i += 1
     print("(+) Your generated password: " + pwd)
```

for example: username "399076724"

Sorthe pud will be (48830QFBK)

---> Enter your username: 399076724
(+) New generated string: 6776g1VRc
(+) Your generated password: 48830QFBK