Forgot my Key

```
def my_encrypt(flg, key):
   key = hashlib.md5(key).hexdigest()
   DCTF{0d940de ... 57c69b2}|6941f4 ... 51cd0d64
                 ord(encrypted[i]))
```

```
ASCII code of a msg word
   ASCII code of a key word xdigest()
      ASCII code of a previous encrypted word
   for i in range(len(msg)):
       encrypted += chr((ord(msg[i]))
                  + ord(key[i % len(key)])
                  + ord(encrypted[i])) % 126)
   return my_unpack(encrypted)
```

encrypted: 52 byte

Encryption 0th 1st 2ed ... 70th ... encrypted word [19, 5] (6) hashlib.md5(key).hexdigest()' | ' + *key* pted = chr(random.randint(0)**6** (m.**9**) **=**: for key word get from here cycle return ny unpack(encrypted) *msg* word

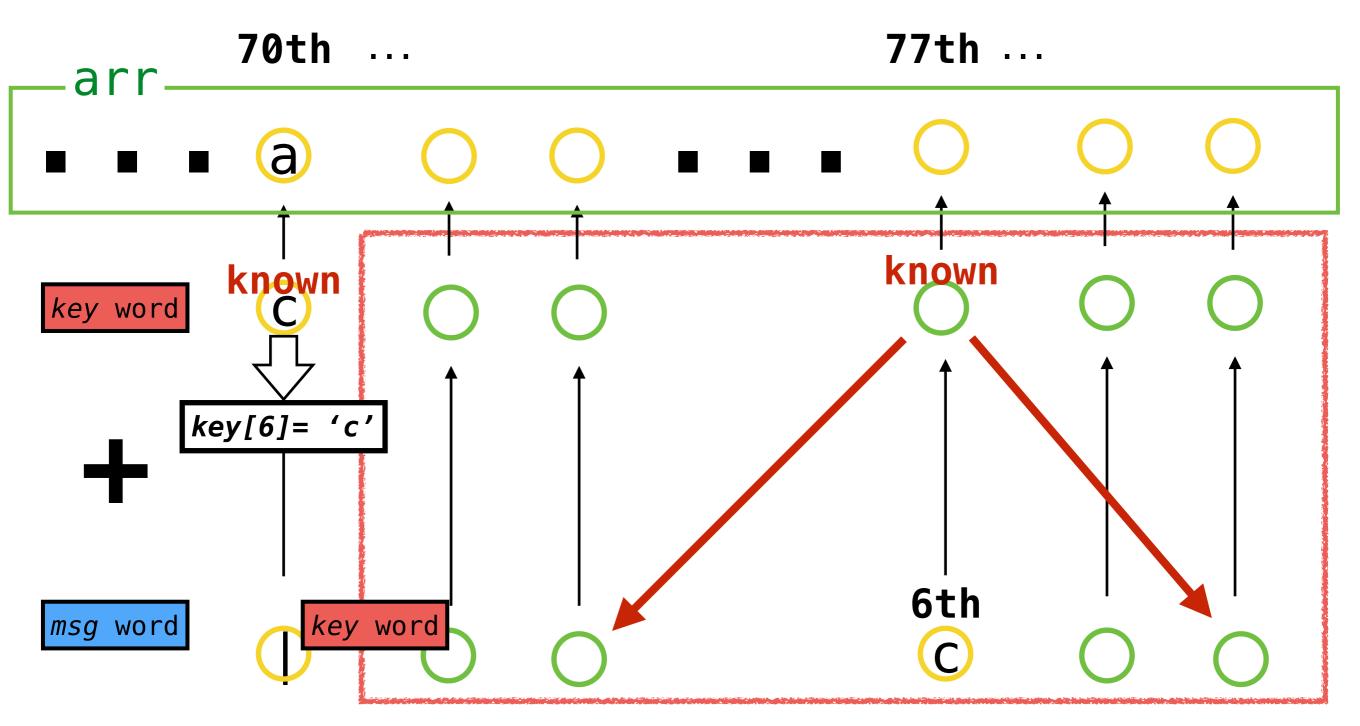
DCTF{0d940de ... 57c69b2}|6941f4 ... 51cd0d64

known 70th ... hashlib.md key ted = chr(random.randir for key word ge 6941f4c ... 51cd0d64 | chr(\(\)\(\)\(\)\(\)\(\) key[6]= 'c' cycle return ny unpack(encrypted) Addition of *keys* from here known *msg* word

DCTF{0d940de ... 57c69b2}|6941f4 ... 51cd0d64

DECRYPT the hash *key*

Decryption



Addition of *keys* from here

Decryption

```
manage index of arr, key and msg
def key_decrypt(key, tab, arr):
    key[6] = (arr[70] - ord('|')) % 126
    piv = key[6]
    piv_index = 6
    arr index = 70
    while key.count('') != 0:
        for i in range(len(tab)):
            if piv_index == tab[i][1]:
                previous = piv_index
                piv index = tab[i][2]
                arr index = tab[i][0]
                key[piv_index] = (arr[arr index]
                                  - key[previous]) % 126
            else:
                pass
```

Decryption

```
def key_decrypt(key, tab, arr):
                                           70th
    key[6] = (arr[70]
    piv = key[6]
    piv index = 6
         key word
     6941f4c ... 51cd0d64 len(tab
                                         key[6]= 'c'
                                   (arr[arr_index]
                                     key[previous]) % 126
            else:
```

DCTF{0d940de38493d96dc6255cbb2c2ac7a2db1a7792c74859e95215caa6b57c69b2}