0001

做为 Apple Store App 独立开发者，你要搞限时促销，为你的应用生成激活码（或者优惠券），使用 Python 如何生成 200 个激活码（或者优惠券）？

来自 <https://github.com/Alexxql272/show-me-the-code>

At first I want to generate random number to do this, consider that an active code contains both number and letter, so, I create a list from 0 to 35, 0-9 represents just the number of 0 to 9, and 10 represents A, 35 represents Z

using Ascii is easy to do this, A in Ascii is 65 so we have to add 55 to 10 to make it become A in char.

I repeat the things upon 16 times to generate a 16 bits code.

Something important!
this Algorithm is fast enough to generate 200 of codes, but because of its complexity is O(n^2), so this will takes a lot of time to generate more codes, I will figure out this in the future.

```python
import random

# Generate a list include 0-9 and A-Z, 11-35 represent A-Z
element = 0
wordList = list()
while element <= 35:
    wordList.append(element)
    element += 1

i = 0
Codes = list()
num = int(input("Enter how many codes do you want:"))
```

```python
while i < num:
    i += 1
    parameter = None
    Str = ''
    j = 0
    while j < 16:
        j += 1
        parameter = random.randint(0, 35)
        if parameter < 10:
            if j % 4 == 0 and j !=16:
                char = str(parameter) + '-'
            else:
                char = str(parameter)
        else:
            if j % 4 == 0 and j != 16:
                char = chr(parameter+55) + '-'
            else:
                char = chr(parameter+55)
        Str += char
    Codes.append(Str)

hFile = open('data.txt', 'w')
for code in Codes:
    print(code)
    hFile.write(code+'\n')
hFile.close()
```