简单的数字匹配

例：regular\_test/regular\_test1.py

import re  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 regex = re.compile(r'\d\d\d-\d\d\d-\d\d\d\d')  
 text1 = 'My number is 415-555-4242'  
 text2 = 'My number is 18811751156'  
 text3 = 'My number is 415-5555-424'  
  
 result = regex.search(text1)  
 if result:  
 print(result.group())  
 else:  
 print('Not match regular')  
  
 result = regex.search(text2)  
 if result:  
 print(result.group())  
 else:  
 print('Not match regular')  
  
 result = regex.search(text3)  
 if result:  
 print(result.group())  
 else:  
 print('Not match regular')

输出为：

415-555-4242

Not match regular

Not match regular

()分组

例：regular\_test/regular\_test2.py

import re  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 regex = re.compile(r'(\d\d\d)-(\d\d\d)-(\d\d\d\d)')  
 text1 = 'My number is 415-555-4242'  
 result = regex.search(text1)  
 print(result.group(0)) # 415-555-4242  
 print(result.group(1)) # 415  
 print(result.group(2)) # 555  
 print(result.group(3)) # 4242  
 print()  
  
 # 文本中包含()  
 text2 = 'My number is (415)-555-4242'  
 regex1 = re.compile(r'(\(\d\d\d\))-(\d\d\d)-(\d\d\d\d)')  
 result = regex1.search(text2)  
 print(result.group(1)) # (415)  
 print(result.group(2)) # 555  
 print(result.group(3)) # 4242

管道|匹配

例：regular\_test/regular\_test3.py

import re  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 # 匹配许多表达式中的1个  
 regex = re.compile(r'Batman|Tina')  
 text = 'aaa Batman and Tina'  
 result = regex.search(text)  
 print(result.group()) # Batman  
  
 text = 'Tina and Batman'  
 result = regex.search(text)  
 print(result.group()) # Tina  
  
 regex = re.compile(r'Bat(man|mobile|copter|bat)')  
 text = 'aaaa Batmobile lost a wheel'  
 result = regex.search(text)  
 print(result.group()) # Batmobile  
  
 text = 'aaaa Batman lost a wheel'  
 result = regex.search(text)  
 print(result.group()) # Batman  
  
 text = 'aaaa Batcopter lost a wheel'  
 result = regex.search(text)  
 print(result.group()) # Batcopter

?实现可选匹配：?前面的分组为可选匹配

例：regular\_test/regular\_test4.py

import re  
  
if \_\_name\_\_ == '\_\_main\_\_':  
 # ?表示wo为可选匹配  
 regex = re.compile(r'Bat(wo)?man')  
 result = regex.search('The Adventures of Batman')  
 print(result.group()) # Batman  
  
 result = regex.search('The Adventures of Batwoman')  
 print(result.group()) # Batwoman  
 print()  
  
 regex = re.compile(r'(\d\d\d-)?\d\d\d-\d\d\d\d')  
 result = regex.search('My number is 415-555-4242')  
 print(result.group(0)) # 415-555-4242  
 print(result.group(1)) # 415-  
 print()  
  
 result = regex.search('My number is 555-4242')  
 print(result.group()) # 555-4242