학습활동보고서(day 30-31)

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연습문제

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해결방법:

0번:2\*\*2

1번:3\*\*2

2번:5\*\*2

……

N번:(2\*\*N+1)\*\*2

결과:

N = int(input())

print((2\*\*N+1)\*\*2)

**파일 읽고 쓰기**

정의: 파일 객체 = open(파일 이름, 파일 열기 모드)

f = open("C:/doit/새파일.txt", 'w')

f.close()

연습문제

다음과 같은 내용을 지닌 파일 test.txt가 있다. 이 파일의 내용 중 "java"라는 문자열을 "python"으로 바꾸어서 저장해 보자.

해결방법: replace 함수를 사용합니다.

f = open('test.txt', 'r')

body = f.read()

f.close()

body = body.replace('java', 'python')

f = open('test.txt', 'w')

f.write(body)

f.close()

**클래스**

연습문제

1.하나의 사전 클래스를 정의： dictclass다음 기능 완성:

dict = dictclass（

1)키 삭제  
del\_dict ( key )

2)키가 사전에 있는지 아닌지를 판단합니다. 만약 존재한다면 키의 값을 되돌려줍니다. 그렇지 않으면존재하면 'not found' 로 돌아갑니다.

get\_dict(key)

3)get\_key()

4.)update\_dict ({병합할 사전})

해결:

class Dictclass():

# 함수 구성

# 현재 개체에 대한 인스턴스 초기화

def \_\_init\_\_(self, class1):

self.classs = class1

def del\_dict(self, key):

if key in self.classs.keys():

del self.classs[key]

return self.classs

return " 이 값이 존재하지 않으니 삭제할 필요가 없습니다. "

def get\_dict(self, key):

if key in self.classs.keys():

return self.classs[key]

return "not found"

def get\_key(self):

return list(self.classs.keys())

def update\_dict(self, dict1):

# 중복된 키에 대해 B가 A를 덮는다

a = dict(self.classs, \*\*dict1)

return a

a = Dictclass({"이름": "박신준", "나이": "20", "성별": "남자"})

print(a.del\_dict("나이"))

print(a.get\_dict("이름"))

print(a.get\_key())

print(a.update\_dict({"연봉": 0}))

2. 하나의 집합을 정의하는 작업 클래스: Setinfo

포함하는 내용:

1 집합 요소 추가: add\_setinfo ( keyname) [keyname: 문자열 또는 정수 형식]

2 집합의 교집합: get\_intersection ( unioninfo) [unioninfo: 집합 종류]

3집합의 합집합: get\_union (get\_union)unioninfo) [unioninfo: 집합 종류]

4 집합의 차집: del\_difference ( unioninfo) [unioninfo: 집합 종류]

set\_info = Setinfo (조작할 집합)

해결:

class Setinfo():

def \_\_init\_\_(self, my\_set):

self.sett = my\_set

def add\_setinfo(self, keyname):

if isinstance(keyname, (str, int)):

self.sett.add(keyname)

return self.sett

def get\_intersection(self, unioninfo):

if isinstance(unioninfo, set):

a = self.sett & (unioninfo)

return a

def get\_union(self, unioninfo):

if isinstance(unioninfo, set):

a = self.sett | (unioninfo)

return a

def del\_difference(self, unioninfo):

if isinstance(unioninfo, set):

a = self.sett - (unioninfo)

return a

a = Setinfo({1, "a", 2, "b", 3, "c"})

print(a.add\_setinfo(4))

print(a.get\_intersection({1, 2, "a"}))

print(a.get\_union({2, 3, 4, "c", "d"}))

print(a.del\_difference({1, 2, 3, 4}))

출력:

![텍스트, 시계이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHllIGxpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM0OAAAkpIAAgAAAAM0OAAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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HcsSSe5JNd1bERqUuRLqnsuzW+7+ZKVnckqOC4huYy9tLHMgdoy0bBgGVirLkdwwII7EEVJVPStMh0jTktLdpJAHeV5JCC0kjuXdzgAAs7M2AABnAAGBXH7vK31/wCH/wCAUXKKKKkDn4f+SlXv2j/oEW/2Pf8A9dpvP8vP/btvx/0yz/DWhpP9nf6b/ZP3Ptcnnbd3l+dx5mzPy/ezu2cb9+fn31JqekabrVstvrOnWmoQK4kWK7gWVQwBG4BgRnBIz7mrFvbw2ltFb2sUcEEKCOOKNQqooGAoA4AA4xXTUqxnHS97JW6af194kiSub8FQKbHUb3Mnm3GqXyOvmN5YEd3Mi7Y87EJA+YqAXPzNljmuguI2mtpYo5pLd3Qqs0YUtGSPvDcCMjryCPUGq+laZDpGnJaW7SSAO8rySEFpJHcu7nAABZ2ZsAADOAAMCpjNRoyjfVtfcr/rb7g6lyiiisBhRRRQAUUUUAFFFFABRRRQBXvrmW0spJ7eynvpFxi3t2jDvkgcGRlXjryw4HrxWP4Qs7aX4a6HZTGC+tW0i3hc7CYp0MKg/K4BKsOzAHB5Haugrn/Aokg8EaTp9xBPBdabaQ2VzHNC0eJY41VtpYAOuejrlT2Jrqg/9nlbdNfk/wAv19CepH4Ct4bTwvJb2sUcEEOqajHHFGoVUUXs4CgDgADjFdJWX4e0ybSdMmt7lo2d768uQYySNstzJKo5A5CuAffPXrUltd3k3iC/t3t9thbwwiKZkKmSY7zIBn7yhfJwQMZZhkkEKYj97WqTTurt/j/wQWiSNCse+bTtD1K41u8ln868hhsxDFE0zSeWZXURxopdmxJITgH5VzgBSa2K5vU7LX08XLqumWem30EdiLaFbu+kt2gZpC0xAWFwwcJB1PHlnGMnKw8VKTi3ZW7pX8rvTf8Ap7DZc8P2Nzbtqd/ex+RNqt2Ls2xYMbcCGKJUZhwWxEGOMgFioLABm2Kp6ZLqUtszazaWlpPvIVLS6adSuByWaNCDnPGOw554j0O7vL7Shc6jb/Z5JJpjGhQofJ81vJLK3KsY9hIOCCSCFPAmqpSbnK2llp6aW9EgRoVXubG2u7i0muI98lnMZ4G3EbHMbxk8dflkcYPHPqBViisU2tUM5/xNrNzpfl41HStEteN2o6uQ0Tuc4hRBJGS2FLFiwAGAA2WKSeFfEcPiOwumhubS7eyuTay3VjIHt52CI++M5OAVkXKkna25ctjcTU9P1KHXF1jRorS9nNsLVre+uGhWJdxbfG6o5UscB12/PsjOR5eGPDumalYXmrXGqtaM+pXKXeLYtiJvKSIxfMPmCrEh8zjcWb5EwAfQfsXhul+m1731Vt9u7t2RGtzUsrG2063aGzj8uNppZyu4nLySNI559WZjjoM8cVh+CpGFjqNt5Mhii1S+ZLrK+XMXu5mZVGd4KE7W3KoJHyll+auguJ1traWeQSMkSF2EcbSMQBnhVBLH2AJPasfwfbzW/h9jcRSQme+vbpEkUq3ly3UsqEqeVJR1O0gEZwQCCKxUm6E3LVtr/wBu1/rv6D6m5RRRXIUFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVzfg17qX4f6dqKvJeajqFjFeyfa7p9sk8kSsQCd3lIW/hRdq5OF7VuX1lFqNlJa3DzpHJjLW9xJA4wQeHjIYdOx5HHQ1l+CJ2ufh/4enkEavLpds7CONY1BMSnhVACj2AAHauqFlh5PzX5P+vkvlPUPB+oX+p+H2uNX8v7WL69hdY23KgjupY1UHau4BVAyQCcZIya3K5/wV/yAbn/ALC+pf8ApdPW4txC1y9ussZnjRZHiDDcqsSFYjqASrAHvtPpSxUUsRUUVZJv5ahHZElYeoLqmp65Jp1reXek2lvbRzm9toY2a4d2kXywZUZAEEeWGCx8xOVAIfcrD1O6u7/XF0PTLuSyKWwury8hRGkhVmKxIgkUrlykpLENgRMMAurBYe/M7W23ey8+vptu9NbDZJ4fv7m4bU7C9k8+bSrsWhuSoU3AMMUquyjgNiUKcYBKlgFBCrsVXsbG202yjtLKPy4Y8kAsWLEklmZjksxJJLEkkkkkkk1JBcQ3MZe2ljmQO0ZaNgwDKxVlyO4YEEdiCKiq4yk5RWn9fdfe3TZAiSubuYNZmju9UvNdk0GK2eUx2+yCS3EUbHbLMzKWIYDeQrx7VYLwylz0lc3c2nhjxDHd6pq+m2iT6a8tvLd3caR3FoImJ3iXO6IYIlRgykK6uMZrXDNJttaeil+D017/ANNM2NHvZtS0Oxvrq0ksZ7m2jmktZM7oGZQShyAcgnHQdOgq5WPoF/cr4I0zUPEcn2e6GnRT38lyoh8t/LDSFxwEwc5HAHtWxWVaPLUkvN+nyGtgrPh/tH/hJb3zv+QZ9kt/s/3f9dvm83/a+75PXj071oUVEZWTVt/60GcvoXi7T2j+y63rVjFqU2o3kFvbzTxxyyIt5NFEFTILcIFBAySO5zWxr/8AaP8AwjWp/wBhf8hP7JL9j+7/AK7Ydn3vl+9jrx61z/hH+x/+EV177T9h+z/2vqn9p+Zs2f8AHzLu87PH+q2Z3fw7e2K2PCH2z/hCND/tTz/t39nW/wBp+0583zPLXdv3c7s5znnNehiYQp1ZTgvhls9nu9u2m3oRFtqxsUUVHBcQ3MZe2ljmQO0ZaNgwDKxVlyO4YEEdiCK86ztcskrk/iP4hv8AQPCN42gtGNWe2mlgZ03rCkUZkklYegUbQSCvmSRBuGrrK8y8aXGqjS/Gl3feGtSeJtLuLKyuVmtTFFbiEl5MGbepdyS2FyUjhyu5cV6GW0o1MRHntZNaNrXVK2u/drsRN2R6bRVODUQdJN/qUEmlIiNJMl5JGDCq5yzMjMgGBnO44HXHNXK4JRcXqWFZ8P8AaP8Awkt753/IM+yW/wBn+7/rt83m/wC193yevHp3rQoojKyatv8A1oBn3ev6PYalBp19q1jbX1xt8m1muUSWXcdq7UJyckEDHU8Vj6ff61qnwjttQsZPN1270NJ4ZNqLvuWgDKcHCDLkcH5fwo8PfY/+Ed1v+2vI2/2jqH9o/a8Y8vzn2ebu/h+z+Vjdx5ezHy4qx4A/5Jr4Z/7BFr/6JWvQlCFGDaV3GS32e/4Pt6EXbZ0FFFRwXENzGXtpY5kDtGWjYMAysVZcjuGBBHYgivOs7XLJKz9S/tH7fpP9n/8AHv8Aa2+3/d/1PkS468/63yvu8/hmtCinGXK72vv/AF/kBT1PWNN0W2W41nUbTT4GcRrLdzrEpYgnaCxAzgE49jVi3uIbu2iuLWWOeCZBJHLGwZXUjIYEcEEc5rn9TN1N4uW30c2lpqK2If7ZqELzq0RkIaOGMSJzuCmRgRj9wCGypSv4ElmabxNDPe2l4bfWWj32UZihVjbwNIqoXfafMZyw3HLlyeSa7Hh4+wc09Uk/k3bt+vyRN9bG5on9o/YJP7Z/4+Ptdzs+7/qfPfyfu8f6rZ7+vOa0KKjW4ha5e3WWMzxosjxBhuVWJCsR1AJVgD32n0rkk3OTlb7tkUSVn6//AGj/AMI1qf8AYX/IT+yS/Y/u/wCu2HZ975fvY68etaFFKEuWSla9u4EdxcQ2ltLcXUscEEKGSSWRgqooGSxJ4AA5zVfTNY03WrZrjRtRtNQgVzG0tpOsqhgAdpKkjOCDj3FZfij/AI//AA353/Hp/a6/aN3+r/1E3lb+3+v8nbn+PZj5sVof8S7/AISX5f8AkJ/ZPn2bv9Tv+XzMfL97ds3c/wCt2/x1v7KKppu7bV9NlZ21/rTQV9Qh/tH/AISW987/AJBn2S3+z/d/12+bzf8Aa+75PXj071n6WZLbxvrWnpPO9r9ktb1Y5pml2SyyXKvtLElVIiTCDCjHAGTnoK5uKBbn4nXryGQGz0u0eLy5GQMZJLpW3hSBIAFG0PuCnJXBYk3TkpxqX091beTivx6+rfkJ9DpKKKK4ygooooAK5/wT5H/CNQ/2d9u/sz5f7O+2eV/x67F8ry9nzeXtxjzf3nXdWxfXMtpZST29lPfSLjFvbtGHfJA4MjKvHXlhwPXisvwRGsPw/wDD0Uc0dwiaXbKs0YYLIBEvzDcAcHryAfUCuqKth5Pu1+T/AK+/zJ6liPVdIs9BvdTheOHTrN7qS5eOEqFaOR/PbaBknerkkA7jkjOasW+mQwatealuke5u0jiYsRhI4921FAA4DPI2Tk5c84CgYfjGxttO+FviiGzj8uNtOv5yu4nLyLJI559WZjjoM8cVJLqGv6O0F7rkumz2U9zDbNbWdvIslu00ixoRKzkSgO6g/JHkEsMEbG1VJTg5U5fE2rPd7NfML9zcub+2tLi0huJNkl5MYIF2k73EbyEcdPljc5PHHqRVPU/DGga1crcazoem6hOqCNZbu0jlYKCTtBYE4ySce5q5c2Ntd3FpNcR75LOYzwNuI2OY3jJ46/LI4weOfUCrFcqqOnaVNtPr/wAD5WHvuU9M0jTdFtmt9G0600+BnMjRWkCxKWIA3EKAM4AGfYUaVpkOkaclpbtJIA7yvJIQWkkdy7ucAAFnZmwAAM4AAwKuUVMqk5X5ne4WRXS/tpNSm09JM3UEMc8ke0/KkhdUOenJjfjrx7iq93oGj3+pQajfaTY3N9b7fJuprZHli2ncu1yMjBJIx0PNWEsbaPUptQSPF1PDHBJJuPzJGXZBjpwZH568+wrl9b8U3Omak63OueHNEVctDp+rSgTXSAkb/MEoESuQQPkkIADEZJjXoo05VJ2oNrT57a7dL/huJuy1NzxNHYS+FtSXWZpINNFs7XrRjJMAGZF4BOCgZTt+bBO0g4I1Ky7eSw8XeEYpZIZG07WLEM0Mh2sYpY/unaeDtbHB+hrUrKfux9m73Ten3fjpr8h+YUUUViMw73RvDEWradPfaRppv5rkpZzNZI0gl/eXB2ttypysj5yPmyep53Kr3NjbXdxaTXEe+SzmM8DbiNjmN4yeOvyyOMHjn1ArL1DUNSutck0fQpbS1ntraO6uLi8t2nXbI0ioioroScxOSxYYwoAbcSnTrWsuZ6LW+y1/Lb5i2NysfRPsdn4dk/sbz9QWGa539BLcXAmfzvvbVDNKH/upk8YXFXNMkv3tmTVYY47mJyhkhP7ucYBEiDJKg55VuVIYZYAO0llY22nW7Q2cflxtNLOV3E5eSRpHPPqzMcdBnjiouoRcHrqvTr/n+YEelanDq+nJd26yIC7xPHIAGjkRyjocEglXVlyCQcZBIwasXFvDd20tvdRRzwTIY5IpFDK6kYKkHggjjFc/4KkYWOo23kyGKLVL5kusr5cxe7mZlUZ3goTtbcqgkfKWX5q6SnXgqVaUY9Hp+gLVFPVtMh1nSbjTbtpFtrpPKnEZALxn76ZxwGXKkjBAJwQcEXKKKy5ny8vT+v8AIYUUUVIGfd6Bo9/qUGo32k2NzfW+3ybqa2R5Ytp3LtcjIwSSMdDzVy3t4bS2it7WKOCCFBHHFGoVUUDAUAcAAcYqSirdSckot6IAqnpWmQ6RpyWlu0kgDvK8khBaSR3Lu5wAAWdmbAAAzgADAq5RS5ny8vT+v8wCiiipAp6npGm61bLb6zp1pqECuJFiu4FlUMARuAYEZwSM+5qS20+zstv2O0gt9sKQDyoguI0zsTgfdXc2B0GTjrViir9pPl5L6dgCqdvpkMGrXmpbpHubtI4mLEYSOPdtRQAOAzyNk5OXPOAoFyikpNJpdQCiiipAjuLeG7tpbe6ijngmQxyRSKGV1IwVIPBBHGKr6ZpGm6LbNb6Np1pp8DOZGitIFiUsQBuIUAZwAM+wq5RVc8lHlT0AKz7HSI7LUr3UHuZ7q6vNqNJNtHlxKXZIlCqo2qZHwTlju5Y4GNCihTlFNLqAUUUVIBRRRQAVz/gUSQeCNJ0+4gngutNtIbK5jmhaPEscaq20sAHXPR1yp7E1d1LXrbRrlf7VR7SxKAnUpWRbZHJOEdt2UJxwzAKSQu7cQpn1K/bTrZZ1sbq8TeBILVVdokwSXKkgsBj7qBmORhTWiqJU5Q7tP7r/AOY+R3TK/ifTJta8I6xpVq0aT31jPbRtISFDPGVBJAJxk+hrPl0/X9YaCy1yLTYLKC5huWubO4kaS4aGRZEAiZAIgXRSfnkwAVGSd67EOqW17pJ1DSZE1OAozRGzlRxMVyNqtuC5yCOSBnqRTNL1qz1bzY4H8u7t8C6spSBNbMc4DqCcZwcEZVhypZSCbp4iUIqKS0d15PTb7gcHqy/Wfr13eWPh+9uNKt/tN+sLC0hKFhJMeIw2MYUsVycgAZJIAJGhXm3wb/5n3/sc9R/9p1lCSjJNq4j0miiipAK5tNP1/Srm7h0aLTbiC9uXuWvb24kWaJnPRo1QiYIAAvzx/IqR8bd56SitadVwurXT7iauZfhnTJtE8LabpNy0bvYWyWokjJxIsY2K+COCygErzgkjLYydSiipnN1Juct3qNaGfod3eX2lC51G3+zySTTGNChQ+T5reSWVuVYx7CQcEEkEKeBoUUUpyUpNpWAKw9Q0/UrXXJNY0KK0up7m2jtbi3vLhoF2xtIyOrqjkHMrgqVOcqQV2kPuUVVOo4Punuu4mrlPTI79LZn1WaOS5lcuY4R+7gGABGhwCwGOWbliWOFBCLYuJ1traWeQSMkSF2EcbSMQBnhVBLH2AJPapKKly5pXaGYfg+3mt/D7G4ikhM99e3SJIpVvLlupZUJU8qSjqdpAIzggEEVuUUVVWo6lSU31bf3iSsrBRRRWYwooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP//Z)

**모듈**

연습문제

1. 6비트 인증 코드를 쓰는 프로그램(랜덤 모듈 사용),

인증번호에 숫자, 소문자, 대문자까지 포함하도록 요청합니다.

import random

import string

d = random.sample(string.ascii\_letters+string.digits,3)

d.append(random.choice(string.ascii\_lowercase))

d.append(random.choice(string.ascii\_uppercase))

d.append(random.choice(string.digits))

random.shuffle(d)

print("".join(d))

2. glob 모듈을 사용하여 C:\doit 디렉터리의 파일 중 확장자가 .py인 파일만 출력하는 프로그램을 작성해 보자.

>>>import glob

>>> glob.glob("c:/doit/\*.py")

결과:

['c:/doit/doit01.py', 'c:/doit/test.py']

3. time 모듈을 사용하여 현재 날짜와 시간을 다음과 같은 형식으로 출력해 보자.

텍스트이(가) 표시된 사진

자동 생성된 설명

4. 다음 형식의 로그를 화면과 파일에서 동시에 출력할 수 있도록 logging 모듈을 설정하십시오

2020-10-18 15:56:26,613 - access - ERROR - account [1234] too many login attempts

해결방법:

# logger 개체 생성

logger = logging.getLogger()

logger.setLevel(logging.DEBUG)# 전역 설정

# handler 개체 생성

ch = logging.StreamHandler()

ch.setLevel(logging.INFO)# 전역 설정

fh = logging.FileHandler("example.log")

# handler 개체를 logger로 묶기

logger.addHandler(ch)

logger.addHandler(fh)

# formatter 개체 생성

# formatter개체를 handler 로 묶기

file\_formatter=logging.Formatter("%(asctime)s-%(name)s-%(levelname)s-%(threadName)s[%(thread)d]%(message)s")

console\_formatter=logging.Formatter("%(asctime)s-%(name)s-%(levelname)s-%(threadName)s[%(thread)d]%(message)s")

ch.setFormatter(file\_formatter)

fh.setFormatter(console\_formatter)

logging.debug("too many login attempts")

logging.info("too many login attempts")

logging.error("too many login attempts")

logging.critical("too many login attempts")



수학

백준(6588) 골드바흐의 추측

해결방법:

1. 전체 수 만큼 True의 리스트를 생성해준다.

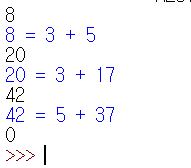
2. 2부터 +1씩 해주면서 그 배수에 해당하는 값들을 False로 바꿔준다.

array에는 소수에 해당하는 값만 True 값을 가지고 있기 때문에 이후로는 True값을 가졌을 때 원하는 계산을 해주면 됩니다.

![텍스트이(가) 표시된 사진

자동 생성된 설명](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAkACQAAD/4RDcRXhpZgAATU0AKgAAAAgABAE7AAIAAAAGAAAISodpAAQAAAABAAAIUJydAAEAAAAMAAAQyOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHllIGxpAAAFkAMAAgAAABQAABCekAQAAgAAABQAABCykpEAAgAAAAM3NgAAkpIAAgAAAAM3NgAA6hwABwAACAwAAAiSAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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결과출력



느낌 점:

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