



Weight: 1

Projects(/projects/current)

➡ Project over - took place from Jul 17, 2024 6:00 AM to Jul 18, 2024 6:00 AM

An auto (CA) Review Reviews alway methat kee / deardie etions/to review)

Evaluation quizzes(/dashboards/my current evaluation quizzes) In a nutshell...

Auto QA review: 27.0/27 mandatory & 4.0/6 optional

Altogether: 166.67%

Curriculums(dashbeards/my_curriculums)

Optional: 66.67%

Calculation: 100.0% + (100.0% * 66.67%) == 166.67% Concepts(/concepts)



Change my mind





kesources

Read or watch:

- Redis Crash Course Tutorial (/rltoken/hJVo3XwMMFFoApyX8zPXvA)
- Reglisscammands (/rltoken/oauvbRmxM12SxvimzqhrOg)
- Redis python client (/rltoken/imfgFhAZPlg7YMZ tHvFZw)
- How to Use Redis With Python (/rltoken/7SluvFvgckwVgsvrfOf1CQ) My Planning(/planning/me)

earning Objectives

- Learning (Brose tedis for basic operations
- Learn how to use redis as a simple cache

QA_Reviews I can make(/corrections/to_review) Requirements

- Aleof your files will be interpreted from piled on Ubuntulian 18.04 LTS using python3 (version 3.7)
 - All of your files should end with a new line
 - A README.md file, at the root of the folder of the project, is mandatory
 - The first line of all your files should be exactly #!/usr/bin/env python3



- Your code should use the pycodestyle style (version 2.5)
- All your modules should have documentation (python3 -c
 - 'print(__import__("my_module").__doc__)')



- AIGORGASSESTANTS have documentation (python3 -c
 - 'print(__import__("my_module").MyClass.__doc__)')



- All your functions and methods should have documentation (python3 -c Conference rooms(/dashboards/video rooms)
 'print(__import__("my_module").my_Function.__doc__)' and python3 -c 'print(__import__("my_module").MyClass.my_function.__doc__)')
- A genum (Maticaris) not a simple word, it's a real sentence explaining what's the purpose of the module, class or method (the length of it will be verified)
 - All your functions and coroutines must be type-annotated. Sandboxes(/user containers/current)

Install Redis on Ubuntu 18.04



Tools(/dashboards/my_tools)

- \$ sudo apt-get -y install redis-server
- \$ pip3 install redis



sed Videoson demand (dash boards (Videos) /etc/redis/redis.conf

Use Redis in a container

edis servers / யுத்து இச்சிர் default - when you are starting a container, you should start it with: service redis-server start



Discord(https://discord.com/app)

Tasks

Writing strings to Redis mandatory Score: 100.0% (Checks completed: 100.0%) reate a Home(/) class. In the __init__ method, store an instance of the Redis client as a private variable named _redis (using redis.Redis()) and flush the instance using flushdb. reate a Myt Blanning (Ablanning ance) a data argument and returns a string. The method should generate a random key (e.g. using uuid), store the input data in Redis using the random key and return the key. **ஆ**ype-an**Protigets(projects/eatly:Re**memberthat data can be a str, bytes, int or float. bob@dylan:~\$ cat main.py /#!/usrQABeveenwsolvennomake(/corrections/to_review) 11 11 11 Main file Evaluation quizzes(/dashboards/my current evaluation quizzes) import redis Cache = __import__('exercise').Cache Curriculums(/dashboards/my_curriculums) data = b"hello"
Concepts/concepts)
key = cache.store(data) print(key) Loca L_rediscence rooms/dashboards/video_rooms) print(local_redis.get(key)) bob@dyServers(/servers) main.py 3a3e8231-b2f6-450d-8b0e-0f38f16e8ca2 b'hello' _bob@dy\$andbexes(/user_containers/current) Repo: Tools(/dashboards/my tools) GitHub repository: alx-backend-storage Video on demand(/dashboards/videos)
 Directory: 0x02-redis_basic • File: exercise.py Check supplies (Users/pegga) a sandbox View results Reading from Redis and recovering original type mandatory Score: 100.0% (Checks completed: 100.0%) Redis only allows to store string, bytes and numbers (and lists thereof). Whatever you store as single element வர் அய் அத்து அத்து string. Hence if you store "a" as a UTF-8 string, it will be returned as b"a" when retrieved from the server.

In this exercise we will create a get method that take a key string argument and an optional Callable gument named fn . This callable will be used to convert the data back to the desired format. Remember to conserve the original Redis.get behavior if the key does not exist. ${f A}$ lso, implement 2 new methods: ${f get_str}$ and ${f get_int}$ that will automatically parametrize Cache. ${f get}$ Home(/) with the correct conversion function. The following code should not raise: My Planning(/planning/me) cache = Cache() TEST_@#scts(/projects/current) b"foo": None, 123: int, "bQaAr'Reviewwisd acaon:marker/cookee(c'tiotnfs/85)")review) } ? for væLvætuatfoniquizÆst(dæsst£Soaidems() current evaluation quizzes) key = cache.store(value) assert cache.get(key, fn=fn) == value Curriculums(/dashboards/my curriculums) Repo: GitHub repository: alx-backend-storage Concepts//concepts) Directory: 0x02-redis_basic File: exercise.py Conference rooms(/dashboards/video_rooms) Check submission >_ Get a sandbox View results Servers(/servers) Incrementing values mandatory Sandboxes(/user_containers/current) Score: 100.0% (Checks completed: 100.0%) Familiarize yourself with the INCR command and its python equivalent. In this task, we will implement a system to count how many times methods of the Cache class are Video on demand(/dashboards/videos) Above Cache define a count_calls decorator that takes a single method Callable argument and returns a Callable. 🚉 a key,Ree ៖Meទស្រនាំគេe@ក្រង់me of method using the __qualname__ dunder method. Create and return function that increments the count for that key every time the method is called and turns t**bevalutineturnerisey the original** method. Remember that the first argument of the wrapped function will be self which is the instance itself, which lets you access the Redis instance. Protip: when defining a decorator it is useful to use functool.wraps to conserve the original function's name, docstring, etc. Make sure you use it as described here (/rltoken/eRjLY2hVLrkDcNkcDJDK3g). My Profile(/users/my_profile)

Decorate Cache.store with count calls.

```
bob@dylan:~$ cat main.py
  #!/usr/bin/env python3
   ""("/) Main file """
   Cache = __import__('exercise').Cache
        Home(/)
   cache = Cache()
 cache My 6Hanning (/plamning/me)
   print(cache.get(cache.store.__qualname___))
Cache Projects/psejeots/current)
   cache.store(b"third")
   print(cache.get(cache.store.__qualname___))
         QA Reviews I can make(/corrections/to review)
   bob@dylan:~$ ./main.py
   b'1'
 p b '3' Evaluation quizzes(/dashboards/my_current_evaluation_quizzes)
   bob@dvlan:~$
Sepo: Curriculums(/dashboards/my_curriculums)
     • GitHub repository: alx-backend-storage

    Directoryots/W03ncedis_basic

     File: exercise.py
```



Check submission

mandatory

_Score: **SanodDaxes**(*tuse* c*onquita*ider*sio*cert)

Familiarize yourself with redis commands RPUSH , LPUSH , LRANGE , etc. Tools(/dashboards/my_tools)

Conference rooms(/dashboards/video_rooms)

>_ Get a sandbox

In this task, we will define a call_history decorator to store the history of inputs and outputs for a particular function.

View results

Video on demand(/dashboards/videos)

Everytime the original function will be called, we will add its input parameters to one list in redis, and store its output into another list.

In call_history, use the decorated function's qualified name and append ":inputs" and output list keys, respectively.

call_history has a single parameter named method that is a Callable and returns a Callable.

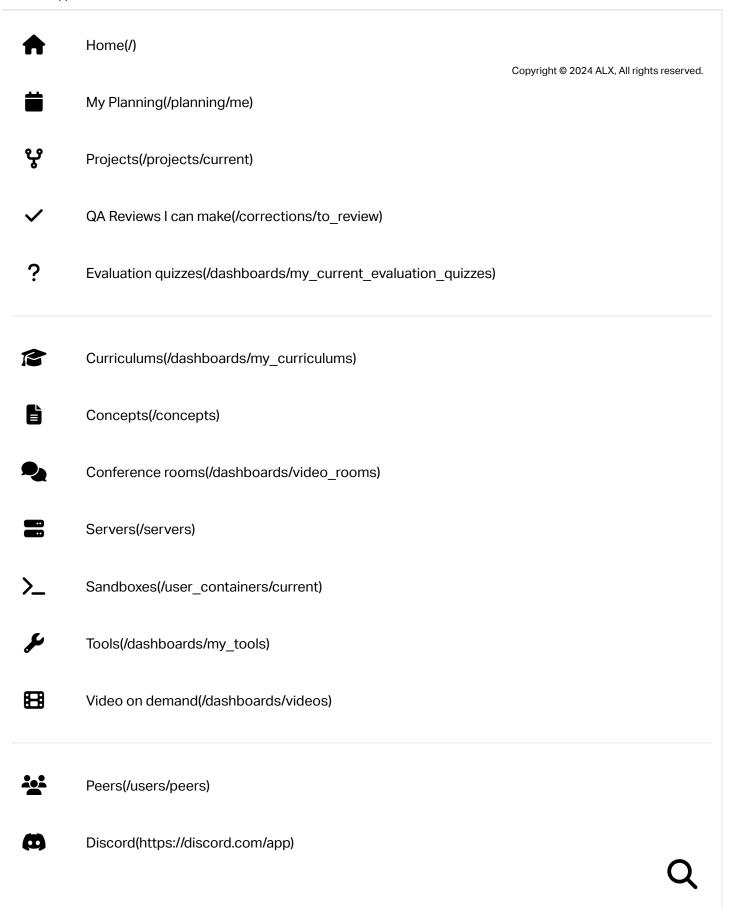
Discord(https://discord.com/app) in the new function that the decorator will return, use rpush to append the input arguments. Remember that Redis can only store strings, bytes and numbers. Therefore, we can simply use str(args) to normalize. We can ignore potential kwargs for now.

Execute the wrapped function to retrieve the output. Store the output using roush in the "...:outputs" illight spen return the output.









My Profile(/users/my_profile)