[***How to prepare for Arbisoft Onsite Coding Test (Tentative)***](https://docs.google.com/document/d/1OHkoDsH_ZfGoPbEkZ6hAWtPwRPLAeRcruSx5-JwybaU/edit?usp=sharing)

[Past Papers and Voice Notes from Seniors](https://drive.google.com/drive/folders/1rFvyegniQ_CxkuQAUrdOeJjgDFWwR2FB?usp=sharing)

You will be able to attempt this practice test only once.

The practice test will remain available till 12:00 AM-Friday, 27th January 2023.

Once you start the test, it has to be completed in a single attempt of 3 hours.

[Practice Coding Test](https://assessment.litmustest.io/courses/course-v1:Arbisoft+Arbisoft.ArbisoftFreshGradCodingPracticeTest2023.1+1/courseware/)

For API Question:

[Python PrettyPrint JSON Data](https://pynative.com/python-prettyprint-json-data/)

[Working With JSON Data in Python](https://realpython.com/python-json/)

[JSON and APIs with Python](https://towardsdatascience.com/json-and-apis-with-python-fba329ef6ef0?)

[Python Requests Tutorial With Examples (and Video) - JC Chouinard](https://www.jcchouinard.com/python-requests/)

[Python JSON: Read, Write, Parse JSON (With Examples)](https://www.programiz.com/python-programming/json)

another api for practice: [todos](https://jsonplaceholder.typicode.com/todos)

Practice APi Question:

1. [Working With JSON Data in Python](https://realpython.com/python-json/)

There are multiple users, each with a unique userId, and each task has a Boolean completed property. Can you determine which users have completed the most tasks?

you’ll create a JSON file that contains the completed TODOs for each of the users who completed the maximum number of TODOs.

API: [todos](https://jsonplaceholder.typicode.com/todos)

1. Fetch pokemons with name(in game index): red

API:<https://pokeapi.co/api/v2/pokemon/ditto>

[Guidelines](https://docs.google.com/document/d/1mjPX3NLRpBj0nA75gyHc4zscyEbqrfbYYO5n3Qildok/edit)

It’ll be good to use Design patterns in the OOP question

Practice examples: Design classes for:

* app like fb( likes,comments, posts, etc)
* hospital management system
* library management system
* olx management system
* Pakwheel
* ecommerce management system

Someone Recommended using **Github copilot** for creating classes but I dont have any info about that. Explore it yourself.

**Imp Design Patterns:**

**Facade, Factory, SuperFactory, Singleton, Decorator,builder, Adapter, proxy, observer, MVC, Prototype**

Seniors Recommended codejam **Questions and Hashmaps. Practice All Data structures.**

* Get Familiar with python
* Clean your code
* Use good coding conventions
* Pep8 guidelines
* get comfortable with nested dictionary

**File handling, problem solving, OOP, Algorithms, and Data Structures, HTTP requests, JSON data reading.**

Input will always be read from the file. There is no convention of the file name. Your program should read the input file name as the first command-line argument as mentioned in the commands earlier.

You should be able to read the command line arguments in the language you are attempting the question.

PS: This Document is based upon the guidance of seniors. There’s no hardcoded material for the Test.

Duao me Yaad Rakhna