Probely Recruitment - Python exercise

Introduction

You should develop a solution for this exercise, in Python 3.X, and send it back to us as soon as possible.
The main purpose is for us to have a starting point for a possible interview, in person. It also gives us a quick and light insight about your python programming knowledge.

Exercise #1

A generic risk score is calculated by adding 1 point for every low severity finding, 10 points for each medium severity and 40 for high severity findings. Only the findings that have not been fixed count towards the score.

Calculate the risk score for the target with ID RzXFSNHH3qUY

Use our API (http://developers.probely.com) to retrieve the findings. Use the following API key to access the API, by including a header in the requests, with this format:

```
Authorization: JWT
eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ0ZW5hbnQiOiJwcm9iZWx5IiwidXNl
cm5hbWUiOiJZVWt3WjhHZFhpUmkiLCJqdGkiOiJRRDdoWUFvdjdTYnIifQ.O53R154sjy
E0I5iv_ykFkboz7i5qeQwRRk-Kve9hjIs
```

Exercise #2

The same program that calculates the risk score should execute a second task:
Without using file resources, i.e., using only in-memory data structures, compare the list of findings between any two scans. You can use scans `3hbQvcGEmLbW` and `2RnxpEEm2qd5` as examples.

Compare two scans and print which findings were fixed (not present in the second scan), which are still not fixed (appear in both scans) and which ones are new (only in the second scan).

The output does not need to be pretty, just readable. You can just print the minimum information to identify the findings (ID #, URL and vulnerability type).

You can either send the code (please CC to mendo@probely.com as the platform has some limitations with attachments) or publish it in a private GitHub repository and share it with me (https://github.com/tmendo).