

**QA Automation Engineer position exam.** 

You can answer the following questions with one of the following languages: Java or Python.

At the end please archive/zip the questions under the name QAE.rar/QAE.zip and place each question under a different subfolder within the archive, for example – question1, question2

## Question1:

Given a folder in the file system which contains the json that you received. Please remove the following keys from the json: "filename", "type" so your json object should look like this:

```
"groupId": "com.google.guava",
    "artifactId": "guava",
    "version": "19.0",
    "shal": "6ce200f6b23222af3d8abb6b6459e6c44f4bb0e9",
    "children": []
```

## Question2:

As you can see each object in the json might contain additional sub json objects. In this question, you are required to change this hierarchy and create a flat json.

For example, our json looks like this:

```
"groupId": "com.github.rholder",
   "artifactId": "guava-retrying",
    "version": "2.0.0",
    "type": "jar",
    "shal": "974bc0a04allcc4806f7c20a34703bd23c34e7f4",
    "children": [
            "groupId": "com.google.guava",
           "artifactId": "guava",
           "version": "19.0",
           "type": "jar",
            "shal": "6ce200f6b23222af3d8abb6b6459e6c44f4bb0e9",
            "children": [],
           "filename": "guava-19.0.jar"
            "groupId": "com.google.code.findbugs",
            "artifactId": "jsr305",
            "version": "2.0.2",
            "type": "jar",
            "shal": "516c03b2ld50a644d538de0f0369c620989cd8f0",
            "children": [],
            "filename": "jsr305-2.0.2.jar"
    1,
    "filename": "guava-retrying-2.0.0.jar"
},
```

As you can see the first object contains 2 additional objects.

Please change it as the following:

```
"groupId": "com.github.rholder",
   "artifactId": "guava-retrying",
   "version": "2.0.0",
   "type": "jar",
    "shal": "974bc0a04allcc4806f7c20a34703bd23c34e7f4",
    "filename": "guava-retrying-2.0.0.jar"
},
    "groupId": "com.google.guava",
   "artifactId": "guava",
   "version": "19.0",
    "type": "jar",
   "shal": "6ce200f6b23222af3d8abb6b6459e6c44f4bb0e9",
    "children": [],
    "filename": "guava-19.0.jar"
    "groupId": "com.google.code.findbugs",
   "artifactId": "jsr305",
    "version": "2.0.2",
   "type": "jar",
    "shal": "516c03b2ld50a644d538de0f0369c620989cd8f0",
    "children": [],
   "filename": "jsr305-2.0.2.jar"
```