# Rules:

1. You have 1 day to finish the test.
2. We are interested in how clean you implement the solution for this test, so please create the most beautiful code you can.
3. You must use git version control to commit your work, we are interested in how you work by looking at the git log.
4. After you finish the test, **\*\*DO NOT\*\*** put your project in any public source control, such as Github, Gitlab, or Bitbucket.
5. To submit the test, please send us a standard zip or tarball of your code, including the **`.git`** folder, this contains the metadata for your git commits in this test.
6. Complete the test using **PHP**.
   * We provide skeleton project to help you get started in: <https://drive.google.com/file/d/1pEqoHqM_jUlGoPWl7qiRtxfoXPq-D1r7/view?usp=sharing>

This skeleton project is optional to use, you are free to use any other framework or any other php components.

# Problems:

In this project you will be asked to make a command to calculate product reviews.

* Make 2 command that can list reviews:
  + `review:summary` to calculate all submitted reviews.
  + `review:product <product\_id>` to calculate review for the selected product.
* For reviews or products data, please use the datasource below or the provided json files in: [https://drive.google.com/file/d/1WgOWgd-XCdjNZokBtnmpsnxTZRcmhRPN/view?usp=sharing](https://drive.google.com/file/d/1WgOWgd-XCdjNZokBtnmpsnxTZRcmhRPN/view?usp=sharing.)
* Result of the commands consists of:
  + Total count of reviews.
  + Average from all reviews.
  + Total count from each review rating.

#### **(Optional) Extra points:**

In addition to command, you can make it to next level to impress us with:

* Add cache layer to your logic when calculating summary (global or for every product), so that every time there's a query for a review. The program does not need to recalculate the review.
* Add unit tests for your code.

# Example:

| $ application review:summary  {  "total\_reviews": 500,  "average\_ratings": 2.9,  "5\_star": 62,  "4\_star": 117,  "3\_star": 126,  "2\_star": 123,  "1\_star": 72  }  $ application review:product 1  {  "total\_reviews": 100,  "average\_ratings": 4.9,  "5\_star": 40,  "4\_star": 34,  "3\_star": 16,  "2\_star": 13,  "1\_star": 7  } |
| --- |

# Datasource:

*products.json*

| [  {  "id": 1,  "name": "Product 1",  "price": "1000"  },  {  "id": 2,  "name": "Product 2",  "price": "2000"  },  {  "id": 3,  "name": "Product 3",  "price": "3000"  },  {  "id": 4,  "name": "Product 4",  "price": "4000"  },  {  "id": 5,  "name": "Product 5",  "price": "5000"  }  ] |
| --- |

*reviews.json*

| [  {  "id": 1,  "product\_id": 2,  "rating": 5  },  {  "id": 2,  "product\_id": 1,  "rating": 3  },  {  "id": 3,  "product\_id": 3,  "rating": 4  },  {  "id": 4,  "product\_id": 4,  "rating": 4  },  {  "id": 5,  "product\_id": 4,  "rating": 1  },  {  "id": 6,  "product\_id": 3,  "rating": 1a  },  {  "id": 7,  "product\_id": 4,  "rating": 3  },  {  "id": 8,  "product\_id": 4,  "rating": 1  },  {  "id": 9,  "product\_id": 2,  "rating": 2  },  {  "id": 10,  "product\_id": 3,  "rating": 2  },  {  "id": 11,  "product\_id": 2,  "rating": 2  },  {  "id": 12,  "product\_id": 4,  "rating": 1  },  {  "id": 13,  "product\_id": 3,  "rating": 5  },  {  "id": 14,  "product\_id": 4,  "rating": 4  },  {  "id": 15,  "product\_id": 2,  "rating": 3  },  {  "id": 16,  "product\_id": 4,  "rating": 4  },  {  "id": 17,  "product\_id": 4,  "rating": 5  },  {  "id": 18,  "product\_id": 1,  "rating": 1  },  {  "id": 19,  "product\_id": 2,  "rating": 2  },  {  "id": 20,  "product\_id": 1,  "rating": 4  },  {  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