# Problem 3 – PIN Validation

You are part of the very promising team of specialists, which is set by the parliament to recreate the new electronic government in Bulgaria.

Your task is to write a PHP program that reads data about the voters in electronic poll: **first and last name, gender and PIN (EGN in Bulgarian) and then verifies the PIN.** The program should generate **JSON string** for DB insert **if the data is correct,** or print "**Incorrect data**" in **<h2></h2>** heading tags.

The PIN is 10 digit number, which consists of following:

* **First 6 digits** are the date of birth of the citizen in format **yymmdd;** If the person is born **before 1900,** the **mm** digits are **+20.** If the person is born **after 2000,** the **mm** digits are **+40**
* **Next 3 digits** show the region, based on the **regional city of birth;**
* **The last of the above 3 digits** show the gender – **even for male** and **odd for female;**
* **One digit** for **checksum**. In order to get the correct checksum you need to **multiply each of the first 9 digits with [2,4,8,5,10,9,7,3,6]** respectively, **sum all** and then **divide by 11**. The **remainder** is the **checksum**.  
  **NOTE: if remainder is 10, then checksum is 0** (source: <http://www.grao.bg/esgraon.html> )

Example: **9912164756** as PIN we check the following:

* **991216** – translates to 16th December 1999 – **correct date**
  + **995216 –** translates to 16th December 2099
  + **993216 –** translates to 16th December 1899
* **475** – shows the regional city is Plovdiv
* **5** – shows the PIN is of a girl – **correct gender**
* 9\*2 + 9\*4 + 1\*8 + 2\*5 + 1\*10 + 6\*9 + 4\*7 + 7\*3 + 5\*6 = 215. 215 / 11 = 19 (remainder **6**) – **correct checksum**

### Input

The input will be read from an **HTTP GET request**. The **first and last name** will be received from a **text** **input field with name ‘name’**. The **gender** will be received from an **input field with name ‘gender’**. The **PIN** will be received from an **input field with name ‘pin’**.

### Output

If the PIN is not correct or the data is not in the format described, "**Incorrect data**" should be printed. Otherwise, **print JSON string** with all the data.

### Constraints

* Name field will contain names. You should check if there are 2 words.
* Gender field will always be ‘male’ or ‘female’.
* PIN will be number. You should check if it is 10 digit number.

### Examples

|  |  |  |
| --- | --- | --- |
| **Input** | | **Output** |
| Name | Ana Ivanova | {"name":"Ana Ivanova","gender":"female","pin":"9912164756"} |
| Gender | female |
| PIN | 9912164756 |
| **Input** | | **Output** |
| Name | Ivan Petrov | <h2>Incorrect data</h2> |
| Gender | male |
| PIN | 1234567890 |