

Samantha was tasked with calculating the average monthly salaries for all employees in the **EMPLOYEES** table, but did not realize her keyboard's **0** key was broken until after completing the calculation. She wants your help finding the difference between her miscalculation (using salaries with any zeros removed), and the actual average salary.

Write a query calculating the amount of error (i.e.: *actual* — *miscalculated* average monthly salaries), and round it up to the next integer.

Input Format

The **EMPLOYEES** table is described as follows:

Column	Type
ID	Integer
Name	String
Salary	Integer

Note: *Salary* is per month.

Constraints

$1000 < \text{Salary} < 10^5$.

Sample Input

ID	Name	Salary
1	Kristeen	1420
2	Ashley	2006
3	Julia	2210
4	Maria	3000

Sample Output

2061

Explanation

The table below shows the salaries *without zeros* as they were entered by Samantha:

<i>ID</i>	<i>Name</i>	<i>Salary</i>
1	Kristeen	142
2	Ashley	26
3	Julia	221
4	Maria	3

Samantha computes an average salary of **98.00**. The *actual* average salary is **2159.00**.

The resulting error between the two calculations is **2159.00 – 98.00 = 2061.00**. Since it is equal to the integer **2061**, it does not get rounded up.

Solution:

```
SELECT ROUND(AVG(salary)) - ROUND(AVG(REPLACE(salary, '0', '')))
FROM employees;
```

OR

```
SELECT ROUND((AVG(salary)) - (AVG(REPLACE(salary, 0, ''))))
FROM employees;
```

OR

```
SELECT CEIL(AVG(salary) - AVG(CAST(REPLACE(salary, '0', '') AS DECIMAL)))
FROM EMPLOYEES;
```