

Collections.namedtuple()



Problem Statement

collections.namedtuple()

Basically, *namedtuples* are easy to create, lightweight object types.

They turn tuples into convenient containers for simple tasks.

With *namedtuples*, you don't have to use integer indices for accessing members of a tuple.

Example

Code 01

```
>>> from collections import namedtuple
>>> Point = namedtuple('Point','x,y')
>>> pt1 = Point(1,2)
>>> pt2 = Point(3,4)
>>> dot_product = ( pt1.x* pt2.x ) +( pt1.y* pt2.y )
>>> print dot_product
11
```

Code 02

```
>>> from collections import namedtuple
>>> Car = namedtuple('Car','Price Mileage Colour Class')
>>> xyz = Car(Price = 100000, Mileage = 30, Colour = 'Cyan', Class = 'Y')
>>> print xyz
Car(Price=100000, Mileage=30, Colour='Cyan', Class='Y')
>>> print xyz.Class
Y
```

Task

Dr. John Wesley has a spreadsheet containing a list of student's *IDs*, *marks*, *class* and *name*.

Your task is to help Dr. Wesley calculate the average marks of the students.

$$Average = \frac{Sum\ of\ all\ marks}{Total\ Students}$$

Note:

1. Columns can be in any order. **IDs**, **marks**, **class** and **name** can be written in any order in the spreadsheet.
2. Column names are **ID**, **MARKS**, **CLASS** and **NAME**. (The spelling and case type of these names won't change.)

Input Format

The first line contains an integer N , the total number of students.

The second line contains the names of the columns in any order.

The next N lines contains the *marks*, *IDs*, *name* and *class*, under their respective column names.

Constraints

$$0 < N \leq 100$$

Output Format

Print the average marks of the list corrected to 2 decimal places.

Sample Input

TESTCASE 01

5				
ID	MARKS	NAME	CLASS	
1	97	Raymond	7	
2	50	Steven	4	
3	91	Adrian	9	
4	72	Stewart	5	
5	80	Peter	6	

TESTCASE 02

5				
MARKS	CLASS	NAME	ID	
92	2	Calum	1	
82	5	Scott	2	
94	2	Jason	3	
55	8	Glenn	4	
82	2	Fergus	5	

Sample Output

TESTCASE 01

78.00

TESTCASE 02

81.00

Explanation

TESTCASE 01

Average = (97 + 50 + 91 + 72 + 80)/5

Can you solve this challenge in 4 lines of code or less?

NOTE: There is no penalty for solutions that are correct but have more than 4 lines.