



# Collections.namedtuple() ☆

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## 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:

- Columns can be in any order. IDs, marks, class and name can be written in any order in the spreadsheet.
- 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

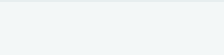
Average =  $(97 + 50 + 91 + 72 + 80)/5$

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.

Change Theme

Python 3



```
1 # Enter your code here. Read input from STDIN. Print
  output to STDOUT
2 from collections import namedtuple
3 n=int(input())
4 student=namedtuple('student',input().split())
5 #print(student)
6 #print(student)
7 s=0
8 for i in range(n):
9     x=student._make(input().split())
10    s=s+int(x.MARKS)
11 print(s/n)
```

Line: 11 Col: 10

Upload Code as File

Run Code

Submit Code

Test against custom input

Python 4 star badge icon

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You are now 11 points away from the 4th star for your python badge.

90%209/220

Congratulations



You solved this challenge. Would you like to challenge your friends?

Next Challenge

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Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Compiler Message

Success

Input (stdin)

Download

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

Expected Output

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