



## Collections.namedtuple() ★

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Your Collections.namedtuple() submission got 20.00 points.

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Problem

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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.

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

## 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

$$\text{Average} = (97 + 50 + 91 + 72 + 80) / 5$$

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

Language

Pypy 3



```

1  # Link - https://www.hackerrank.com/challenges/py-collections-namedtuple/problem?isFullScreen=false
2
3  number_of_students = int(input())
4
5  columns = input().split()
6
7  marks_index = columns.index("MARKS")
8  total_marks = 0
9
10 for i in range(number_of_students):
11     student = input().split()

```

```
12     total_marks += int(student[marks_index])
13
14     average_marks = round(total_marks / number_of_students, 2)
15
16     print(f"{average_marks:.2f}")
17
```

Line: 17 Col: 1

⬇️ Upload Code as File

☐ Test against custom input

Run Code

Submit Code

You have earned 20.00 points!

You are now 75 points away from the gold level for your python badge.

58%

325/400



Congratulations

You solved this challenge. Would you like to challenge your friends? [f](#) [t](#) [in](#)

Next Challenge

✔️ Test case 0

✔️ Test case 1

✔️ Test case 2

✔️ Test case 3

✔️ Test case 4

✔️ Test case 5

Compiler Message

Success

Input (stdin)

1	5
2	IDMARKSNAMECLASS
3	197Raymond7
4	250Steven4
5	391Adrian9
6	472Stewart5
7	580Peter6

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Expected Output

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