Zipped! ★

54/115 challenges solved

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Problem Submissions Leaderboard Editorial

zip([iterable, ...])

This function returns a list of tuples. The i^{th} tuple contains the i^{th} element from each of the argument sequences or iterables.

If the argument sequences are of unequal lengths, then the returned list is truncated to the length of the shortest argument sequence.

Sample Code

```
>>> print zip([1,2,3,4,5,6],'Hacker')
[(1, 'H'), (2, 'a'), (3, 'c'), (4, 'k'), (5, 'e'), (6, 'r')]
>>>
>>> print zip([1,2,3,4,5,6],[0,9,8,7,6,5,4,3,2,1])
[(1, 0), (2, 9), (3, 8), (4, 7), (5, 6), (6, 5)]
>>>
>>> A = [1,2,3]
>>> B = [6,5,4]
>>> C = [7,8,9]
>>> X = [A] + [B] + [C]
>>>
>>> print zip(*X)
[(1, 6, 7), (2, 5, 8), (3, 4, 9)]
```

Task

The National University conducts an examination of N students in X subjects.

Your task is to compute the average scores of each student.

$$Average\ score = \frac{Sum\ of\ scores\ obtained\ in\ all\ subjects\ by\ a\ student}{Total\ number\ of\ subjects}$$

The format for the general mark sheet is:

```
Student ID → ___1_____2_____3_____4_____5__
Subject 1   |  89    90    78    93    80
Subject 2   |  90    91    85    88    86
Subject 3   |  91    92    83    89    90.5
           |_____________________________
Average        90    91    82    90    85.5
```

Input Format

The first line contains N and X separated by a space.

The next X lines contains the space separated marks obtained by students in a particular subject.

Constraints

$0 < N \leq 100$

$0 < X \leq 100$

Output Format

Print the averages of all students on separate lines.

The averages must be correct up to 1 decimal place.

Sample Input

```
5 3
89 90 78 93 80
90 91 85 88 86
91 92 83 89 90.5
```

Sample Output

```
90.0
91.0
82.0
90.0
85.5
```

Explanation

Marks obtained by **student 1**: $89, 90, 91$

Average marks of **student 1**:

$270/3 = 90$

Marks obtained by **student 2**: $90, 91, 92$

Average marks of **student 2**:

$273/3 = 91$

Marks obtained by **student 3**: $78, 85, 83$

Average marks of **student 3**:

$246/3 = 82$

Marks obtained by **student 4**: $93, 88, 89$

Average marks of **student 4**:

$270/3 = 90$

Marks obtained by **student 5**: $80, 86, 90.5$

Average marks of **student 5**:

$256.5/3 = 85.5$

Change Theme Python 3

```
if __name__ == '__main__':
    n, x = tuple(map(int, input().split()))

    scores = []
    for _ in range(x):
        scores.append(tuple(map(float, input().split())))

    result = list(zip(*scores))

    for r in result:
        average = sum(r) / len(r)
        print(average)

```

Line: 5 Col: 23

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Next Challenge

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Get Certified

Test case 0
Test case 1
Test case 2
Test case 3
Test case 4
Test case 5

Compiler Message

Success

Input (stdin) Download

```
5 3
89 90 78 93 80
90 91 85 88 86
91 92 83 89 90.5
```

Expected Output Download

```
90.0
91.0
82.0
```