Mean, median and mode

locked

Find mean, median and mode of list of floating point numbers, correct up to two decimal places.

Input Format

List of floating point numbers separated by spaces. -1 would represent end of the list (-1 should not be considered part of the list, it is just representing the end of the list).

Constraints

1 <= numbers in the list <= 99999

0 <= each floating point number in the list <= 999999

Output Format

Mean, median and mode in a single line. Mean, median and mode separated by spaces. Output should have only two digits after decimal point. Round off - mean, median and mode - correct up to two digits after decimal point. (e.g. 3.455 would be written as 3.46 and 3.454 would be written as 3.45). If list contains zero or more than one modal value (mode), then write -1.00 in output in place of mode. A list is said to have no modal value (mode), if all values in the list have same frequency.

Sample Input 0

```
1 -1
```

Sample Output 0

```
1.00 1.00 -1.00
```

Explanation 0

Input list does not have any mode

Sample Input 1

```
1 2 3 -1
```

Sample Output 1

```
2.00 2.00 -1.00
```

Explanation 1

Input list does not have any mode

Sample Input 2

```
1.0 1.0 1.5 2.0 2.0 -1
```

Sample Output 2

```
1.50 1.50 -1.00
```

Explanation 2

Input list have more than one modal value (mode).

Sample Input 3

```
1.00 1 2.0 3 4.0 5.50 6.5 -1
```

Sample Output 3

```
3.29 3.00 1.00
```

Sample Input 4

```
7 7 7 7.0 7.00 1 1 1 1 1 1 3 3 3 3 3 3 3 4.00 -1
```

Sample Output 4

```
3.47 3.00 3.00
```

Sample Input 5

```
7 7 7 7.0 7.00 1 1 1 1 1 1 1 1 3 3 3 3 3 3 3 4.00 -1
```

Sample Output 5

```
3.24 3.00 1.00
```

Sample Input 6

```
1 1.0 2.0 2.00 3.0 3 4.0 4.00 -1
```

Sample Output 6

```
2.50 2.50 -1.00
```

Explanation 6

All values have same frequency, hence no mode.

Sample Input 7

```
3 3 3 2 2 1 1 -1
```

Sample Output 7

```
2.14 2.00 3.00
```

Submissions: 121
Max Score: 10
Difficulty: Hard

Rate This Challenge:

Download problem statement

Download all test cases

Suggest Edits

Collapse

Admin Options

Edit Challenge

View Submissions

C

```c
#include <stdio.h>
#include <string.h>
#include <math.h>
#include <stdlib.h>

int main() {

    /* Enter your code here. Read input from STDIN. Print output to STDOUT */
    return 0;
}

```

Line: 1 Col: 1

Upload Code as File Test against custom input Run Code Submit Code