



PRACTICE

COMPETE

JOBS

LEADERBOARD

Search



shaunakbhana...

Practice &gt; Tutorials &gt; 10 Days of Statistics &gt; Day 0: Mean, Median, and M...

1 more challenge to get your first star!

# Day 0: Mean, Median, and Mode ☆

Points: 2/3

10  
Days of  
Statistics

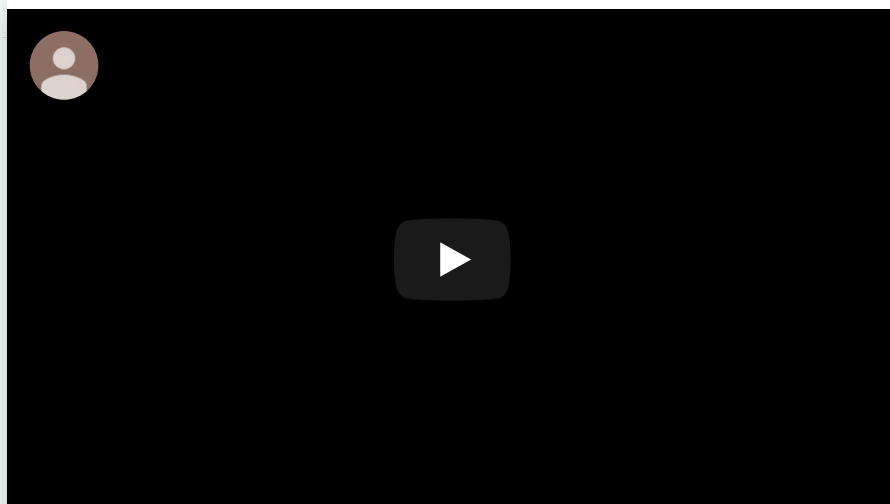
Problem

Submissions

Leaderboard

Discussions

Editorial

**Tutorial**

Terms you'll find helpful in completing today's challenge are outlined below.

## Mean ( $\mu$ )

The average of all the integers in a set of values. Here is the basic formula for calculating the mean of a set of  $n$  values:

$$\mu = \frac{\sum_{i=1}^n x_i}{n}, \text{ where } x_i \text{ is the } i^{\text{th}} \text{ element of the set.}$$

## Median

The midpoint value of a data set for which an equal number of samples are less than and greater than the value. For an odd sample size, this is the middle element of the sorted sample; for an even sample size, this is the average of the 2 middle elements of the sorted sample.

## Mode

The element(s) that occur most frequently in a data set. For the set  $\{1, 1, 1, 2, 2, 3, 4, 4\}$ , the mode is **1** because the number **1** appears three times in the set and every other number in the set has a frequency  $< 3$ . In contrast, the set  $\{1, 2, 3, 4\}$  is **multimodal** because no number in the set

### TUTORIAL DETAILS

Tutorial By



AllisonP

[Solve Problem](#)

### NEED HELP?

[View discussions](#)[View editorial](#)[View top submissions](#)

appears more than **1** time, so every number in the set is a valid mode.

## Precision and Scale

These are important terms to understand when formatting your output:

- Precision refers to the number of significant digits in a number. For example, the numbers **123.45** and **0.012345** both have a precision of **5**.
- Scale refers to the number of significant digits to the right of the decimal point. For example, the number **123.45** has a scale of **2** decimal places. This term is sometimes misrepresented as precision in documentation.

[Solve Problem](#)

[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)