



Problem of the Week

Problem D

New Heights

The heights of the ten members of the Ricky's basketball team were measured. The heights, in cm, of his nine teammates are 180, 181, 183, 187, 188, 190, 193, 195, and 196. Ricky's height is also a whole number.

The coach of the team made a mistake when measuring Ricky's height. After this mistake was corrected, both the mean and median of the heights increased by 0.5 cm.

Find all possible correct values for Ricky's height.



The *mean* of a list of numbers is the sum of the numbers in the list divided by the number of numbers in the list.

The *median* of a list of numbers is the middle number in the ordered list of numbers when there is an odd number of numbers in the list. The *median* of a list of numbers is the average of the two middle numbers in the ordered list of numbers when there is an even number of numbers in the list.

