**CSE 465/565**

**Puzzle**

Some applications need to determine the relationship between certain entities. In this problem you are to determine if a list of positive integers can be divided into 4 pieces such that each section sums to the same number. For example, consider the following lists and their solutions:  
  
[1,2,3,3,2,1,1,2,3,3,1,2]

[10,1,2,3,4,5,5,9,1]

[1,1,1,1,4,3,1,1,3]  
  
  
The following are lists without a solution:

[3,3,3,1,2,1]

[1,1,1]

[1,4,5,4,1,5,5]

**Minimal Demonstration:**

Provide your output for the examples shown above.