Your assignment is to write a program that can determine if given a set of numbers, is there a subset that sums to 0?

Your sets may be hardcoded.

Your solution should be general enough that if the set is changed either in content or volume, your algorithm should still work as intended.

An example main method might look like the following,

**public static void** main( String[] arguments )  
{  
 **int**[] testSet = { -1, -1, 2, 5, 6 };  
 **int**[] testSet2 = { -1, 2, 2 };  
  
 System.***out***.println(**"Checking "** + Arrays.*toString*(testSet) + **" - should be "** + **true**);  
 *checkSet*(testSet);  
 System.***out***.println(**"\nChecking "** + Arrays.*toString*(testSet2) + **" - should be "** + **false**);  
 *checkSet*(testSet2);  
}

The output of the above code may look like the following,

*Checking [-1, -1, 2, 5, 6] - should be true*

*Found subset that sums to zero: -1 -1 2*

*Checking [-1, 2, 2] - should be false*

*Unable to find subset that sums to zero*

Your solution should be named Zero.java

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| You can only use basic types.  You may not use and existing classes that may solve part or all of this problem for you. |
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**Grading:**   
Correctness: You can lose up to 20% if your solution is not correct   
Quality: You can lose up to 20% if your solution is poorly designed   
Testing: You can lose up to 20% if your solution is not well tested   
Explanation: You can lose up to 40% if you cannot explain your solution during the grading session