Lab Goal: This lab was designed to teach you how to use a set.

Lab Description: Read in a list of numbers and determine which ones are odd and which ones are even. You will add all of the even numbers to a set and all of the odd numbers to a different set.

Sample Data:

```
1 5 9 4 6 8 12
3 5 7 17 29 4 6 56 72
3 6 12 2 28 6
4 4 4 4 4 4 4 4
1 1 1 1 1 1 1 1
1 2 3 4 5 6 7 8 9
```

Sample Output:

```
ODDS: [1, 5, 9]
EVENS: [4, 6, 8, 12]

ODDS: [3, 5, 7, 17, 29]
EVENS: [4, 6, 56, 72]

ODDS: [3]
EVENS: [2, 6, 12, 28]

ODDS: [1]
EVENS: [4]

ODDS: [1]
EVENS: [1]
EVENS: [1]

ODDS: [1, 3, 5, 7, 9]
EVENS: [2, 4, 6, 8]
```

Files Needed ::

OddEvenSets.java OddRunner.java oddeven.dat

EXTRA OPTION

Add in a perfect Set and output all of the perfect numbers.

6 is perfect because it is equal to the sum of its divisors.

Use split() to split the String input into a String[] array.

```
String[] words = "abc cde fgh ijk".split(" ");
Set<String> set = new TreeSet<String>(Arrays.asList(words));
```