Assignments:

Task 1:

This is one program (just broken down into five steps):

1. Fill an ArrayList with a random number (between 2 and 12) of HashSets that each hold exactly 10 random numbers between 1 and 30. All of the sets must haves sizes equal to 10.
2. Make a method that will receive two sets and return a ***set*** of the intersection of the sets. The intersection will consist only of the common values contained within all sets.
   - Method calls must eventually build the complete intersection of all of the sets.
3. Make a method that will receive two sets and return a ***set*** of the union of the sets. The union will consist only of the unique values contained within all sets.
   - Method calls must eventually build the complete union of all of the sets.
4. Make a method that will receive two sets and return a ***set*** of even intersection of the sets. The intersection will consist only of the common even values contained within all sets.
   - Method calls must eventually build the complete intersection of the even values contained within all of the sets.
5. Make a method that will receive two sets and return a ***set*** of the even union of the sets. The union will consist only of the unique even values contained within all sets.
   - Method calls must eventually build the complete union of the even values contained within all of the sets.

Task 2:

Make an account on this website: **http://www.codewars.com**

You can pick any user name you would like, but, in your account, you need to join the clan (SBHSCoders).

You must do the following tasks on CodeWars:

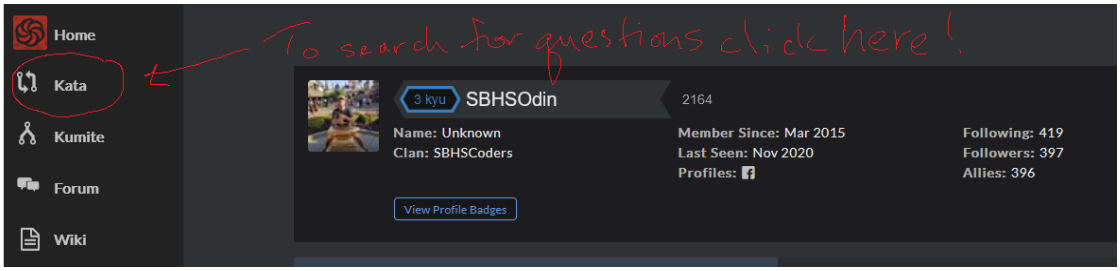
These three can be solved using sets:

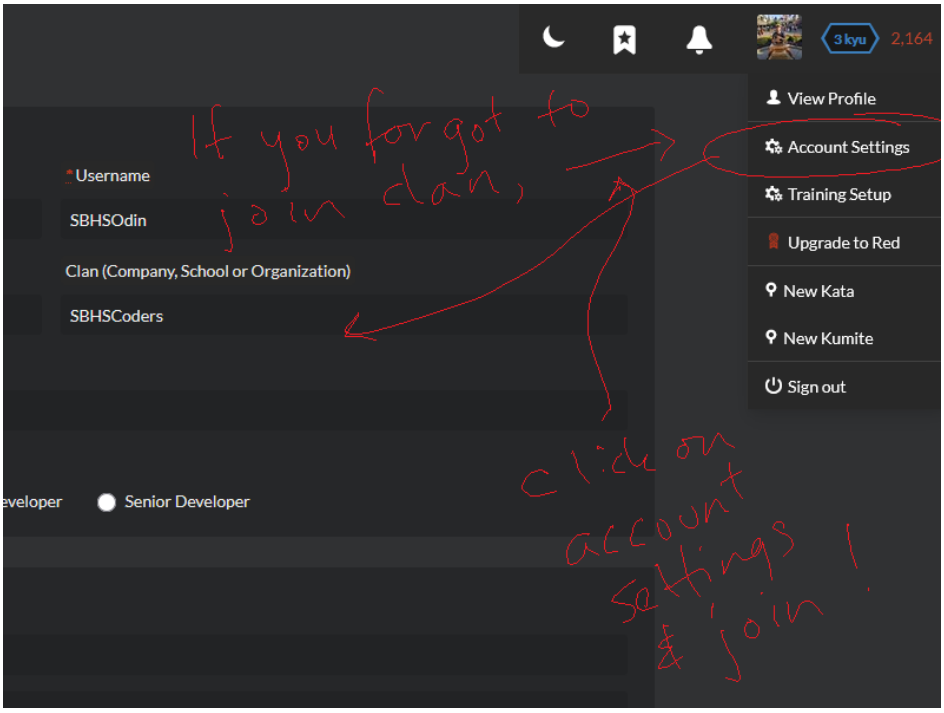
Twice linear, 80's Kids #7: She's a Small Wonder, Detect Pangram

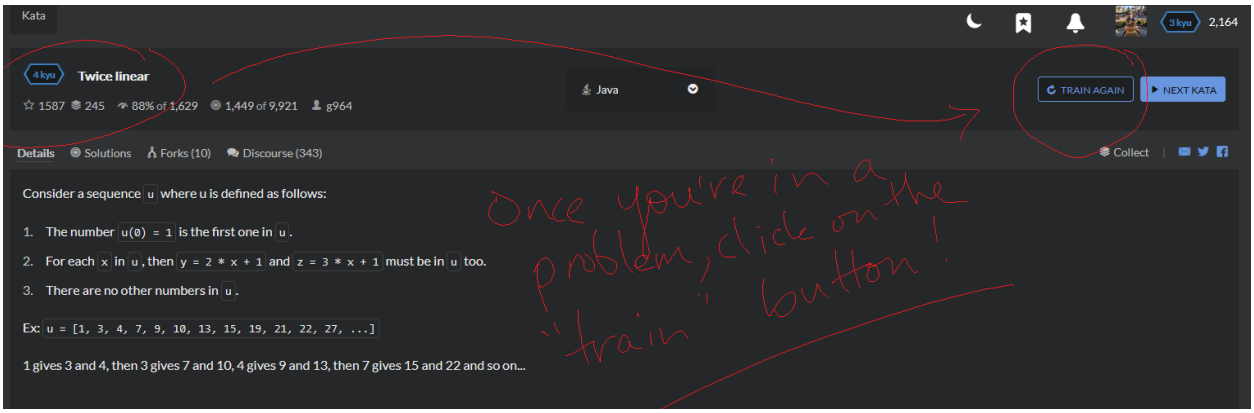
And do these because they're good for you!

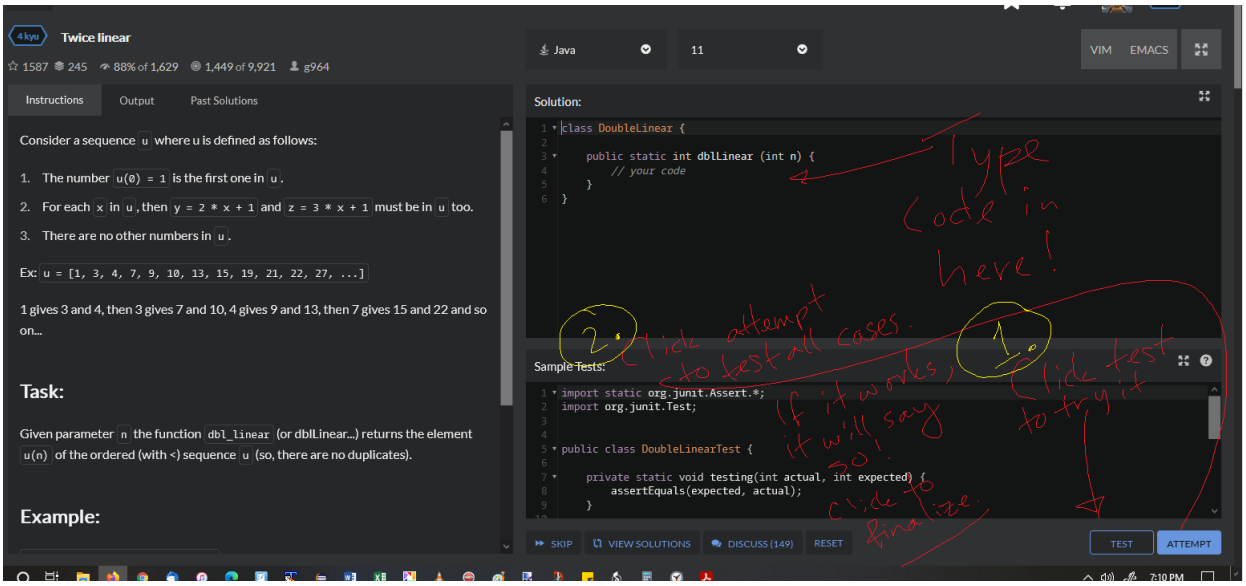
(Also do them, because they're required.)

intTunes
Catching Car Mileage Numbers
Sum by Factors
Feed Kahumolings!
Escape with your booty!
Longest Strict Bouncy Subarray
Which are in?
Your order, please


Home
Kata
Kumite
Forum
Wiki
To search for questions click here!
3 kyu SBHSOdin
2164
Name: Unknown
Clan: SBHSCoders
Member Since: Mar 2015
Last Seen: Nov 2020
Profiles:
Following: 419
Followers: 397
Allies: 396
View Profile Badges


3 kyu 2,164
View Profile
Account Settings
Training Setup
Upgrade to Red
New Kata
New Kumite
Sign out
If you forgot to join clan,
Username
SBHSOdin
Clan (Company, School or Organization)
SBHSCoders
eveloper
Senior Developer
click on account settings & join!


Kata
3 kyu 2,164
4 kyu Twice linear
1587 245 88% of 1,629 1,449 of 9,921 g964
Java
TRAIN AGAIN
NEXT KATA
Details Solutions Forks (10) Discourse (343)
Collect
Consider a sequence u where u is defined as follows:
1. The number u(0) = 1 is the first one in u.
2. For each x in u, then y = 2 * x + 1 and z = 3 * x + 1 must be in u too.
3. There are no other numbers in u.
Ex: u = [1, 3, 4, 7, 9, 10, 13, 15, 19, 21, 22, 27, ...]
1 gives 3 and 4, then 3 gives 7 and 10, 4 gives 9 and 13, then 7 gives 15 and 22 and so on...
Once you're in a problem, click on the "train" button!


4 kyu
Twice linear
1587 245 88% of 1,629 1,449 of 9,921 g964
Instructions
Output
Past Solutions
Consider a sequence u where u is defined as follows:
1. The number u(0) = 1 is the first one in u.
2. For each x in u, then y = 2 * x + 1 and z = 3 * x + 1 must be in u too.
3. There are no other numbers in u.
Ex: u = [1, 3, 4, 7, 9, 10, 13, 15, 19, 21, 22, 27, ...]
1 gives 3 and 4, then 3 gives 7 and 10, 4 gives 9 and 13, then 7 gives 15 and 22 and so on...
Task:
Given parameter n the function dbl_linear (or dblLinear...) returns the element u(n) of the ordered (with <) sequence u (so, there are no duplicates).
Example:
Java
11
VIM
EMACS
Solution:
class DoubleLinear {
public static int dblLinear (int n) {
// your code
}
}
Type Code in here!
2. Click attempt to test all cases.
1.
Sample Tests:
import static org.junit.Assert.*;
import org.junit.Test;
public class DoubleLinearTest {
private static void testing(int actual, int expected) {
assertEquals(expected, actual);
}
If it works, it will say so!
Click test to try it
Click to finalize.
SKIP
VIEW SOLUTIONS
DISCUSS (149)
RESET
TEST
ATTEMPT
7:10 PM