

## ZipCodes.java

## ZipCodes.txt

You are writing a program for a mass marketing corporation. They have certain items they want to send around the country based on the zip code. The company will store zip codes in an ArrayList. An example of the arrayList is:

zipCodes	77459	76234	76589	77101	25064	25000	19122
	0	1	2	3	4	5	6

write a method called **addZip**. **addZip** will add a **zip** to the ArrayList **zipCodes** if and only if that **zip** is not already in zipCodes.

For example

addZip call	zipCodes	added?
addZip(zipCodes, 77777);	77459, 76234, 76859, 77101, 25064, 25000, 19122, 77777	true
addZip(zipCodes, 76234);	77459, 76234, 76859, 77101, 25064, 25000, 19122, 77777	false
addZip(zipCodes, 62362);	77459, 76234, 76859, 77101, 25064, 25000, 19122, 77777, 62362	true
addZip(zipCodes, 77101);	77459, 76234, 76859, 77101, 25064, 25000, 19122, 77777, 62362	false

write a method called **removeZip**. **removeZip** will remove all instances of a given **zip** to the ArrayList **zipCodes** .

Write a printList method that prints the entire list.

Create a main method that instantiates an ArrayList of Strings. Read from a file called ZipCodes. The first number will be the number of initial zip codes to add, followed by that exact number of zipcodes. Then the next number will be the number of zipcodes to add followed by that exact number of zipcodes. Finally the next number will be the number of zipcodes to remove followed by that exact number of zipcodes.

Invoke printlist method

Invoke addZip, using input from the user.

Invoke printlist method

Invoke removeZip, using input from the user

Invoke printlist method

#### Sample File

7  
77459  
76234  
76589  
77101  
25064  
25000  
19122  
4  
77777  
76234  
62362  
77101  
4  
77777  
12345  
25000  
77459

#### Sample Output

Initial List  
77459 76234 76589 77101 25064 25000 19122  
Adding 77777  
Adding 76234  
Adding 62362  
Adding 77101  
Current List  
77459 76234 76589 77101 25064 25000 19122 77777 62362  
Removing 77777  
Removing 12345  
Removing 25000  
Removing 77459  
Current List  
76234 76589 77101 25064 19122 62362