ArrayList class indexOf method

In previous posts we saw ArrayList [Introduction](http://data-structure-learning.blogspot.com/2015/08/arraylist-class-introduction-and-how-it.html) and 3 different [constructors](http://data-structure-learning.blogspot.com/2015/08/arraylist-class-constructors.html) of ArrayList class. We also saw overloaded version of [add](http://data-structure-learning.blogspot.com/2015/09/arraylist-class-add-methods.html)(), [addAll](http://data-structure-learning.blogspot.com/2015/09/arraylist-class-addall-methods.html)() method. We also saw [clear](http://data-structure-learning.blogspot.com/2015/09/arraylist-class-clear-method.html)() method which sets all elements of ArrayList to null. In this post we will see indexOf() method.

indexOf() method returns the first occurrence of Object in ArrayList. If the Object is not present then -1 is returned.

Below is the code of indexOf() method taken from ArrayList class in JDK.

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\* indexOf() method returns the first occurrence of

\* Object o in ArrayList. If the Object is not

\* present then -1 is returned.

\* \*/

**public** **int** indexOf(Object o) {

**if** (o == **null**) {

**for** (**int** i = 0; i < size; i++)

**if** (elementData[i]==**null**)

**return** i;

} **else** {

**for** (**int** i = 0; i < size; i++)

**if** (o.equals(elementData[i]))

**return** i;

}

**return** -1;

}

Below is the class that uses indexOf() method on List<String>.

**package** org.example.collections.list.arraylist;

**import** java.util.ArrayList;

**import** java.util.List;

**public** **class** ArrayListIndexOfDemo {

**public** **static** **void** main(String[] args) {

              ArrayListIndexOfDemo indexOfDemo = **new** ArrayListIndexOfDemo();

              List<String> names = indexOfDemo.arrayListAdd();

**int** index = indexOfDemo.arrayListIndexOfDemo(names, "Rob");

              System.***out***.println(index);// Prints 2

              index = indexOfDemo.arrayListIndexOfDemo(names, "John");

              System.***out***.println(index);// Prints -1

       }

**public** List<String> arrayListAdd() {

              List<String> names = **new** ArrayList<String>();

              names.add("Ned");

              names.add("Catelyn");

              names.add("Rob");

              names.add("Arya");

              names.add("Sansa");

**return** names;

       }

**public** **int** arrayListIndexOfDemo(**final** List<String> names,

**final** String name){

**int** index = names.indexOf(name);

**return** index;

     }

}

**public** **boolean** contains(Object o) {

**return** indexOf(o) >= 0;

}

    /\*\*

     \* indexOf() method returns the first occurrence of

     \* Object o in ArrayList. If the Object is not

     \* present then -1 is returned.

     \* \*/

**public** **int** indexOf(Object o) {

**if** (o == **null**) {

**for** (**int** i = 0; i < size; i++)

**if** (elementData[i]==**null**)

**return** i;

        } **else** {

**for** (**int** i = 0; i < size; i++)

**if** (o.equals(elementData[i]))

**return** i;

        }

**return** -1;

    }