Iterators/Generics – MyArrayList

**Purpose**

This lab was designed to teach you more about lists, inner classes, iterators and generics.

**Description**

Write a program to implement your own generic ArrayList class. It should contain add(), get(), remove(), and size() which need to happen in constant time. Use dynamic array logic. It should double its size when it reaches the current threshold. It should also reduce in size by half when reaching 25% capacity.

**Program Shell**

MyArrayList.java

**Sample Execution**

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I

Love

Computer

Science

Love

Iterators

Rock

After clearing, size is: 0

0 1 2 3 4 5 6 7 8 9

No more elements to iterate

[1, 2, 4, 5, 6, 7, 8, 9, null, null]

My ArrayList: 24.179

Java's ArrayList: 19.607