You're asked to write an implementation of the MyList interface. This interface contains the following methods:

|  |  |
| --- | --- |
| void add(E element) | Adds an item to the list |
| E get(int index) | Gets the object E by 0-based index (the order in which it was inserted). Valid values are between 0 and current length (minus one) of the list. Throws an IllegalArgumentException exception otherwise |
| int length() | Gets the current length of the list (total elements added so far) |

Do not use any existing classes such as ArrayList. This implementation should support generics.

In order to test your program, two text files in the files folder are provided as follows:

* list-numbers.txt, which contains a list of comma-separated numbers.
* list-strings.txt, which contains a list of comma separated 2-letter strings.

In both files, there are no spaces and no new line characters

Write a program that parses one file at a time and reads all elements into your MyListImpl object. Print out the values of each of the following calls per file:

|  |  |  |
| --- | --- | --- |
|  | list-numbers.txt | list-strings.txt |
| length() |  |  |
| get(69) |  |  |
| get(138) |  |  |
| get(439) |  |  |