For PP10.4

We are making a new Object called MySequence;

We need some way to store data, An arrayList<Integer> is the best candidate for this since it is dynamically allocated as well as a method to add to the sequence. We are implementing the Sequence interface and overriding next() and hasNext(). hasNext() checks if there is another number present and next() returns the number the sequence is on. We need someway to reset the sequence as well for any repeated reading.

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\* A User Based Sequence

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\*/

public class MySequence implements Sequence

{

private ArrayList<Integer> \_seq = new ArrayList<Integer>();

private int pos;

/\*\*

\* Constructs a MySequence Object

\*/

public MySequence()

{

pos = 0;

}

/\*\*

\* Constructs a MySequence given an arrayList

\* **@param** sequence

\*/

public MySequence(ArrayList<Integer> sequence)

/\*\*

\* Adds the addMe Parameter to the sequence

\* **@param** addMe

\*/

public void addToSequence(int addMe)

/\*\*

\* Checks if the sequence has a next number

\*/

*@Override*

public boolean hasNext()

/\*\*

\* Provides the next number in the sequence

\*/

*@Override*

public int next()

/\*\*

\* resets the position to 0

\*/

public void reset()

}