Assignment 9: Reservoir Sampling by Vishal Doshi (vdoshi3@uic.edu)

NOTE: The program will generate the input file automatically **Steps:**

- 1. Extract and Import "DecisionTreeJava.zip" into Eclipse.
- 2. Run the ReservoirSamplingJava.java
- 3. Provide the size of reservoir

Results:

Please provid	de the size	e of re	servoir:					
======Reservoir in the start ======								
739 448	90	832	729	278	332	842	192	213
index in begining: 10								
index in end:10000								
=====Reservoir in the end ======								
22 653	979	24	110	726	445	380	834	631

Implementation Details:

ReservoirSamplingJava.java: The class where everything is happening. We first create the file on random numbers.

Later we create a reservoir of size provided by user.

And the process of sampling returns the final reservoir with random samples.