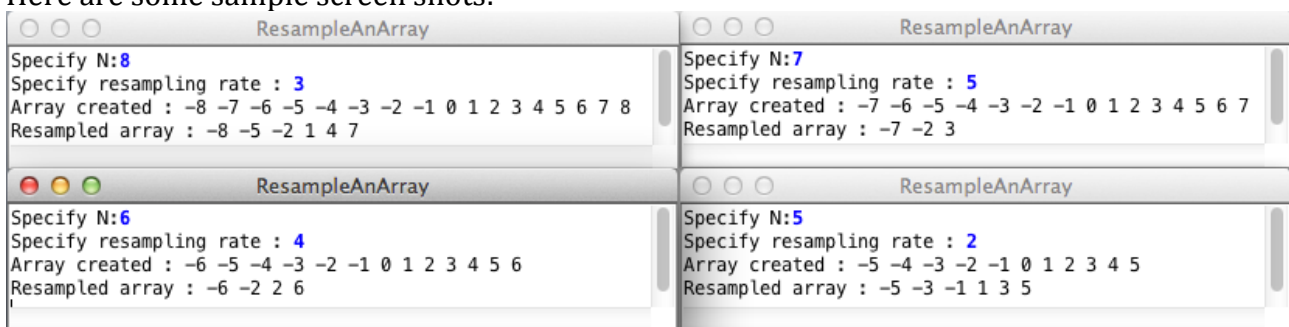


ResampleAnArray

In this project you are asked to implement mainly two functions:

- a method to create an array that contains all integers from $-N$ to N for a user specified value of N
- a method that `()`
 - o resamples this array with a user specified rate (one sample out of each 'rate' samples are taken starting from the first sample).
 - o **In other words**, if the 'rate' is specified to be k , new array (containing the resampled data) will only contain the elements of the original array at the following indexes: $0, k, 2k, 3k, 4k...$ etc.
 - o **Or, to put it in different words**: your method will copy one sample in the new array and skip $k-1$ samples, copy the next sample in the new array and skip $k-1$ samples,... and perform this operation until the end of array is reached.

Here are some sample screen shots:



Warning: Check your result at least for the values in the four examples given. It is possible that your implementation contains a bug that shows up only for some combinations.