**Demonstration of Custom Exception Classes**

Suppose that you are in charge of customer service for a certain business. As phone calls come in, the name of the caller is recorded and eventually a service representative returns the call and handles the request. Write a class ServiceRequests that keeps track of the names of callers. The class should have the following methods:

* addName(name) – adds a name to the list of names. Throws a ServiceBackUpException if there is no free space in the list
* removeName(name) – removes a name from the list. Reorganizes the list so that there isn’t a “gap” in the array. Throws a NoServiceRequestException if the name is not in the list
* getName(i) – returns the ith name in the list.
* getNumber – returns the current number of service requests.

Write a program that uses an object of type ServiceRequests to keep track of customer that have called. It should have a loop that, in each iteration, attempts to add a name, remove a name, or print all names.

Use an array of size 3 as the list of names (**yes, you have to use an array)**.

Your program needs to prove that the exception handling works for both cases.