Examination 2

CSC140 Foundations of Computer Science

19 February 2015

1. Write a method that checks to see that a given floating point number is greater than or equal to zero and less than one.
2. Write a method that checks to see that all elements of a given array of floating point numbers have values that are greater than or equal to zero and less than one.
3. Write a method that checks that two given floating point numbers are approximately equal. "Approximately equal" means that the absolute value of the difference between the two numbers is less than some very small number.
4. Write a method that checks to see that the sum of the elements of a given array of floating point numbers is approximately one.
5. Write a method that checks to see that a given array of floating point numbers could represent a discrete probability distribution function.
6. Write a method that checks to see that the elements of a given array of floating point numbers are ordered from smallest to largest.
7. Write a method that checks to see that a given array of floating point numbers could represent a cumulative distribution function.