

# CSE 123 Quiz 1 Reference Sheet

(DO NOT WRITE ANY WORK YOU WANTED GRADED ON THIS REFERENCE SHEET. IT WILL NOT BE GRADED)

## Math Methods

<code>abs(x)</code>	Returns the absolute value of <code>x</code>
<code>max(x, y)</code>	Returns the larger of <code>x</code> and <code>y</code>
<code>min(x, y)</code>	Returns the smaller of <code>x</code> and <code>y</code>
<code>pow(x, y)</code>	Returns the value of <code>x</code> to the <code>y</code> power
<code>random()</code>	Returns a random number between 0.0 and 1.0
<code>round(x)</code>	Returns <code>x</code> rounded to the nearest integer

## String Methods

<code>charAt(i)</code>	Returns the character in this String at a given index
<code>contains(str)</code>	Returns <code>true</code> if this String contains the other's characters inside it
<code>endsWith(str)</code>	Returns <code>true</code> if this String ends with the other's characters
<code>equals(str)</code>	Returns <code>true</code> if this String is the same as <code>str</code>
<code>equalsIgnoreCase(str)</code>	Returns <code>true</code> if this String is the same as <code>str</code> , ignoring capitalization
<code>indexOf(str)</code>	Returns the first index in this String where <code>str</code> begins (-1 if not found)
<code>lastIndexOf(str)</code>	Returns the last index in this String where <code>str</code> begins (-1 if not found)
<code>length()</code>	Returns the number of characters in this String
<code>isEmpty()</code>	Returns <code>true</code> if this String is the empty string
<code>startsWith(str)</code>	Returns <code>true</code> if this String begins with the other's characters
<code>substring(i, j)</code>	Returns the characters in this String from index <code>i</code> (inclusive) to <code>j</code> (exclusive)
<code>substring(i)</code>	Returns the characters in this String from index <code>i</code> (inclusive) to the end
<code>toLowerCase()</code>	Returns a new String with all this String's letters changed to lowercase
<code>toUpperCase()</code>	Returns a new String with all this String's letters changed to uppercase
<code>compareTo(str)</code>	Returns a negative number if this comes lexicographically (alphabetically) before other, 0 if they're the same, positive if this comes lexicographically after other.

## LinkedList Class

```
public class LinkedList extends AbstractIntList {
    private ListNode front;

    public LinkedList() {...}
    public LinkedList(int[] nums) {...}
    public void add(int index, int value) {...}
    public int remove(int targetIndex) {...}
    public int size() {...}
    public int get(int index) {...}

    public static class ListNode {
        public final int data;
        public ListNode next;

        public ListNode(int data) {...}
        public ListNode(int data, ListNode next) {...}
    }
}
```