Team Report

- -sortMe [] , sortMe is a function that takes a list as input .It is used to sort *statslist* .The list is in the format of ["element",[(),()],[(,),(,)]]the function takes out the first element in statsList and then calls **sort1** on first on the list that contains the elemts on the right of our element and then on the elements below of our element.
- -sort1, this function in turn separates the input list into head+ tail, and calls sort on each.
- -sort, the function compares 2 items in a list by their frequencies using an if condition and switches the pairs depending on the frequency.
- -statsHelper, takes 2 lists, calls generate on the head and the rest of the list.
- -helperOne , helperOne is our main function that either calls helperRight or HelperBelow depending on the position "x"
- -helperRight, the function takes an element and a list, it compares the element with that corresponding in the list, if it is available it increments the frequency by 1, otherwise it recalls itself with the rest of the list.
- **-helperBelow,** it is the same as helper right, however it works on the list sent from helper one that has the elements at position "below".
- -generateHelper, takes 3 lists, lets say the first is (h:x:ys) and the second is (s:y:ys), first it calls findFurnitureUpdate on the element to the right of h (x), then it calls finfurnitureUpdate on the element below h (s) . then calls the main function generate to work on the rest of the list.
- **-getFurnStatHelper, the** input to this function is an element and a list(statsList), the function searches for that element is statslist and if found it returns a list of the tuples it occurs in.
- **-loop,** loop is a function that takes an element a number and returns a list of the element occurring n times.

getLenOfList, returns the total length of the input list from getPosHelper.

getPosHelperBase, base case if the list is empty.

gimmeElem, uses the number given by randomtoZeroX to returns the element in that position.

putInListKbeerXTimes, calls the function loop by the element and its number of occurrences/ it decomposes the "()" brackets.