Project – 1

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Pledge: I pledge my honor that I have abided by Stevens Honor system.

A screenshot of a computer program

Description automatically generatedCreate Histogram:

The Function createHistogram loops through all the items of input array and increments the Counterarray[i] where each i-th element is the counter for each number of input array elements. We loop through all elements of input array, then we branch to print label if there is no elements of input array.

Print for createHistogram and calling the rank procedure

A screenshot of a computer program

Description automatically generated

First, we print the Labels as requested in the output format, then we branch and link with print function to print our labels. After printout of labels, we are branching to loop which will start a print procedure for the results found in the create histogram loopOfI part. In We print i-th element of input string alongside i-th element of array of counters. In the end1 part we are printing all the values, and we are calling the function rankfunc.

A screenshot of a computer program

Description automatically generatedRank Function:

Rankfunc is supposed to go through all the elements of array of counters and to find the input rank which will print the number who is the rank for input number of the rank.