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#!/bin/sh
# declare my two index variables
colIndex=0
printIndex=0
# loop until there are the same number of columns as the argument
while [ $colIndex -lt $1 ]
do
    # loop until the print index equals the column index
    while [ $printIndex -le $colIndex ]
    do
        # output the current print index number and a space
        echo -n $printIndex ' '
        # increment the print index for the next term in the row
        printIndex=`expr $printIndex + 1`
    done
    # output a blank line to prepare for the next line
    echo
    # reset print index to 0
    printIndex=0
    # increment the column index for the next row
    colIndex=`expr $colIndex + 1`
done
# decrease colIndex by one to start the smaller print lines
colIndex=`expr $colIndex - 1`
# loop until the columns index is down to zero
while [ $colIndex -gt 0 ]
do
    # loop until the print index is one below the max column index
    while [ $printIndex -lt $colIndex ]
    do
        # output the current print index number and a space
        echo -n $printIndex ' '
        # increment the print index for the next term in the row
        printIndex=`expr $printIndex + 1`
    done
    # output a blank line to prepare for the next line
    echo
    # reset print index to 0
    printIndex=0
    # increment the column index down for the next row
    colIndex=`expr $colIndex - 1`
done

```