

# COSC 120 – Lab #7

## Switching things up.

Purpose: Practice with switches and for loops!

Tasks:

- 1.) Open up BlueJ and start a new class called Lab7.
- 2.) You will create two methods:
  - a.) Create a method called twelveDays. It returns a string and takes in an integer called day. This method will return the line associated with the integer for the song “The Twelve Days of Christmas.” For instance, if the integer taken in was a 5, the method should return “5 Gold Rings”. If you would like to invent your own lyrics, that’d be awesome. Try to keep it in the same meter as the original. Use a switch for this.
  - b.) Create a method called calcGrades. It returns no values and does not use any parameters. For this method you will calculate the number of perfect scores, A’s, B’s, C’s, D’s and F’s from a sequence of grades inputted by the user. Assume that the user will be entering 15 total grades and that a perfect score is 100, an A is 90-100 (inclusive), a B is 80-89, C is 70-79, D is 60-69 and F is 0-59. Use a for loop and a switch. You will need a series of integers to hold the numbers of scores for each of the letter grades and perfects. Print out the results.
- 3.) Once completed show your output to the TA.

Things needed: Switches, for loops, methods.