## Lab 5 Comments

- auto-format!
- wrap long lines - put in line breaks before 80 characters
- include your name and a description of the program in comments at the beginning of every program
- choose descriptive variable names

CPSC 124: Introduccion to Progranning • Spining 2024 52

## Lab 5 Comments

- \#3 - pig
- scoring
rolling a 1 should only set the points earned on that turn to 0 , not the entire score
roling a 1 should also end that turn - the player should not be able to continue to roll and earn points
- be sure to display all of the elements asked for
remember that if you use Scanner's nextLine( ) after something else like nextInt(), consume the remaining new line first (with nextLine()) or else the nextLine() that you want to read a line will instead skip past having read only an empty line


## Lab 5 Comments

- \#1 - histogram
be careful of off-by-one problems when generating random numbers
formatting of histogram should match the example exactly missing spaces or not using System.out . printf to pad one-digit numbers with a space were the most common issues
- \#2 - magic 8 ball
be careful of off-by-one problems when generating random numbers
the problem said to write the code so that changing the initialization of the array was the only thing needed to change the number or content of the magic 8 ball responses
use the . length syntax to get the length of the array instead of manually counting and using that number

CPSC 124: Introduction to Progamming - Spring 2024

## Lab 5 Comments

- \#4 - prize collector
the number of prizes should be read from the user, not hardcoded
the goal is to compute the average number of purchases needed to get all the prizes
first write code to pick prize numbers until all the prizes have been obtained
- then put that whole process into a loop to be repeated a large number of times in order to compute the average number of purchases needed
- it is valid to check the prizes array for a false after each prize number is picked in order to determine if all of the prizes have been obtained yet, but easier is to keep a count of the number of prizes obtained

