Junior

> I recommend you to start here. Give a couple of these exercise a try, but move onto the *senior* questions if these *junior* ones are too simple for you. For those that are struggling with these *junior* exercises, shoot us a message on Slack, or ask us during our next class!

1. Write a program that prints **Hello World!** to the screen.
2. Declare 2 *int* variable and assign it values 1 and 7, respectively. Print out the sum of the two numbers using *System.out.println()*
3. Declare a string variable with your **first** name and another string variable with your **last** name and concatenate (add together) it. Output it to the screen.
4. Write a for loop that prints out number rom 1 - 100 (ascending)
5. Write a for loop that prints out number from 100 - 1 (descending)

Senior

> By completing these the *senior* exercises, you will have developed better problem solving abilities. If you are able to complete all exercises in this level, Good Job!

1. Write a program that concatenates two lists. [a,b,c], [1,2,3] → [a,b,c,1,2,3]
2. Write a program that prints out all of the odd numbers in an array.
3. Write a program that prints out of the even numbers in an array.
4. Write a program to sum all the elements of an **integer** array.
5. Write a program that takes in an array of integers and returns the number of integers in that array that are divisible by 3.

Full Stack

> These questions are *exceptionally challenging* and requires you to have mastered what has been introduced in all of our classes. Do not feel discourage if you cannot answer these questions. We will be providing some live demo on how to solve these questions during class. So make sure to come  smile

1. Write a program to print out all of the **capital** letters in the alphabet. *Note: start at 65, which the ASCII value for A.*
2. Write a function that takes in a string as input and outputs the string in *reverse*.
3. Write a function that takes in an array (of any type) and output its content in *reverse*.
4. Write a function that takes in an array of Booleans and an integer n that returns the number of ‘true’s in the first n elements of the array