

Recitation 2

Homework 1 (Due Feb 11th, 8:00pm)

- 8 Tasks to implement
- 5.0% of total grade
- 100% Deductions can be incurred if:
 - A GUI is created
 - Built in java methods for certain operations are used.
 - EX: `Integer.parseInt(num, radix);`
 - EX: `Integer.valueOf(string);`
 - EX: `Integer.valueOf(string, radix);`
 - Or any of the Long versions!

Homework 1

- Task 1: Check to see if number of arguments is correct. If not, print error and terminate program.
- Task 2: Determine the numbering system corresponding to input.
Ex: 0b10101 \Rightarrow Binary
- Task 3: Error checking - Check to see if the characters in input are correct.
 - 0xFFFF=true
 - 0xPIZZA=false

Homework 1

- Task 4: Convert inputs into other bases. Ex: Hex input \Rightarrow Decimal and Binary
- Task 5: Convert inputs into 1's complement
- Task 6: Convert inputs into 2's complement
- Task 7: Compute the bitwise OR, AND, and XOR of the 3 inputs.
- Task 8: Compute the bitwise left and right shift of the 3 numbers for 2 shifts.

Homework 1

- How to submit:
 - Submit .zip file to canvas
 - Ex: <FirstName>-<LastName>-HW1.zip
- All classes must be in package called package cs250.hw1
- Will be graded based on comparing our output to yours - see examples in Homework 1 instructions.

Signed Representations of Numbers

- 1's Complement: Flip all of the bits
- 2's Complement: Flip all of the bits + 1
- Performing calculations in these different formats: Addition, subtraction, etc...

Recitation 2 Mock Submission (Due Jan 28 8PM)

- Upload a skeleton of HW1 to canvas
- Should be in the same format as your submission for HW1 (look at Homework 1 instructions)
- After running command: `java cs250.hw1.Operations`
 - Expected output: Hello World!
- REMOVE print statement before your final submission for HW1