Assignment 2: Calc and Format readme

CALC:

Calc executable takes arguments in the form as listed in the assignment pdf, with the exception of multiplication. Multiplication requires a "*" instead of * as weird things were happening when just * was input.

Calc can handle addition multiplication and subtraction of inputs whose sum/product/difference will be NO LARGER than 32 bits.

Calc does calculations by:

- Converting all inputs into binary and storing it in a BinNum struct, regardless of base
- Converts the binary into decimal
- Performs the designated operation (+ *)
- Converts from decimal into designated output base

Calc has a multitude of functions for converting to the various bases, and functions dedicated to converting bases into their string counterparts.

Most of the functions run in O(n) time, as they pass over the entire input string multiple times throughout a single call of calc.

FORMAT:

Format takes in a 32 bit bitstream and converts it to either a float or int. There are two functions outside of main.

CreateIntOut returns a string containing the integer representation of the bitstream.

CreateFltOut returns a string containing the float representation of the bitstream.

Both of the functions run with O(n) time as they iterate through the bitstream multiple times as a part of their algorithms.