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I’ve programmed a four function calculator in MIPS that follows the order of operations. The user may input an expression containing at most 8 operators. Other limiting factors include the range of the operands which ranges from -215 to 215 – 1 and the type of operand which is limited to integers. Furthermore, the input string is form specific because the internal parser uses whitespace as a delimiter. A space must be present before and after each operator. For example, a valid expression would be “-2 + 4 / 2 \* 8”. Since there is minimal error checking, the validity of the output is dependent on the format of the input string. The division operator functions uniquely because only integer division is incorporated. All other operators function as they would in a typical calculator. It has the ability to remember the value of a previously evaluated expression. The user may input another operation and operand and the calculator will use the stored value as the second operand.