Test Case for Calculator

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# Test Case for Calculator
# Instructions: case result, expected result, next case
# Jump to failure if any instruction fails
# Assume $0 is always 0
# Load Immediate Values
00000001 ; li $1, 2  # Load immediate value 2 into $1
00000010 ; li $2, 3  # Load immediate value 3 into $2
# Arithmetic Operations
00000011 ; add $3, $1, $2 # Add $1 and $2, result in $3
00000100 ; sub $4, $1, $2 # Subtract $2 from $1, result in $4
00000101 ; mul $5, $1, $2 # Multiply $1 and $2, result in $5
         ; div $6, $1, $2 # Divide $1 by $2, result in $6
00000110
# Conditional Branch
00000111 ; bgt $3, $4  # If addition result > subtraction result, branch
# Print Results
         ; pr $3  # Print addition result
00001000
00001001 ; pr $4  # Print subtraction result
         ; pr $5  # Print multiplication result
00001010
         ; pr $6  # Print division result
00001011
```