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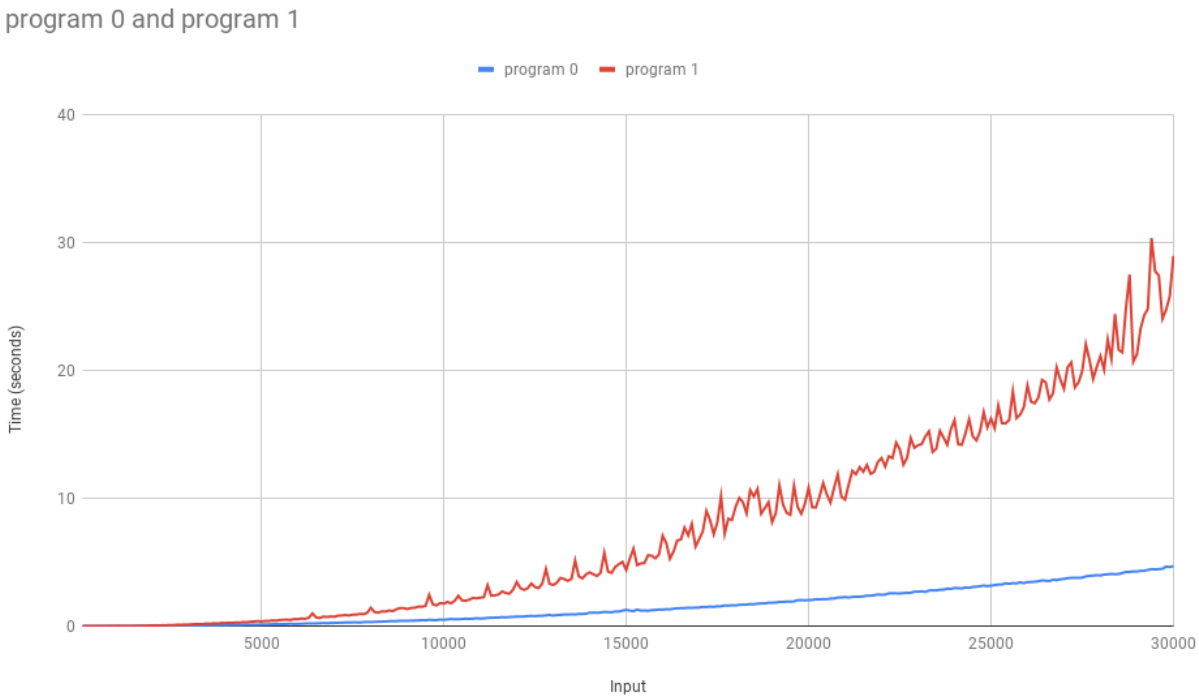

Program 0 and 1 have the same complexity. The only difference in the source code is that program 0 loops through memory through rows in an array (to the next memory address), where program 1 loops through columns (a distant memory address). By looping to the next memory address, program 1 uses fewer ALU operations and so executes faster. “i*size” can be calculated once per outer loop iteration, where j* size must be calculated every iteration of i and j.