Instructions for testing

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| **Assembly code** | **Machine code, binary** | **Machine code, hex** |
| add R3, R1, R2 | 000000\_00001\_00010\_00011\_00000\_100000 | 00221820 |
|  | 00000000001000100001100000100000 |  |
| lw R2, 4(R1) | 100011\_00001\_00010\_00000\_00000\_000100 | 8C220004 |
| R2 <= M[4+R1] | 10001100001000100000000000000100 |  |
| sw R5, 8(R6) | 101011\_00110\_00101\_00000\_00000\_001000 | ACC50008 |
| M[8+R6] <= R5 | 10101100110001010000000000001000 |  |
| beq R16, R0, 0 | 000100\_10000\_00000\_00000\_00000\_000000 | 12000000 |
|  | 00010010000000000000000000000000 |  |
| beq R16, R3, 8 | 000100\_10000\_00011\_00000\_00000\_001000 | 12030008 |
|  | 00010010000000110000000000001000 |  |