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| Instruction | OP code | Format | Example |
| lw | 000 01 x y | lw Rx, Ry | Rx = M[Ry]  Rx = $0, $1; Ry = $0, $2 |
| bgtR0 | 000 1  x ii | bgtR0 Rx, imm | Pc = pc + imm if Rx > $0  Rx = $1, $2; imm = [1:4] |
| sw | 001  x iii | sw Rx, imm | M[imm] = Rx  Rx = $0, $1; imm = [0:7] |
| sub | 010 0 xx y | sub Rx, Ry | Rx = Rx + Ry  Rx = [$0-$3]; Ry = [$0&$2] |
| shiftL | 010 10 xx | shiftL Rx | Rx << 1  Rx = [$0-$3] |
| shiftR | 010 11 xx | shiftR Rx | Rx >> 1  Rx = [$0-$3] |
| init | 011  xx ii | init Rx, imm | Rx = imm  Rx = [$0-$3]; imm = [0:3] |
| add | 100 0 xx y | add Rx, Ry | Rx = Rx + Ry  Rx = [$0-$3]; Ry = [$0&$2] |
| bltR0 | 100 1 x  ii | bltR0 Rx, imm | Pc = pc + imm if Rx < $0  Rx = $1, $2; imm = [1:4] |
| addi | 101 xx ii | addi Rx, imm | Rx = Rx + imm  Rx = [$0-$3]; imm = [-2:1] |
| j | 11   iiiii | J Label | PC = imm  Imm = [0:31] |