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| Instructions | Functionality | Machine code |
| init Rx, imm | Rx = imm | 1110 xx i |
| add Rx,Ry | Rx=Rx+Ry | 001 xx yy |
| load Rx, (Ry) | Rx=Mem[Ry] | 011 xx yy |
| store Rx, (Ry) | Mem[Ry]=Rx | 010 xx yy |
| jump imm | imm [] | 110 iiii |
| slt Rx, Ry | Rx=1 if Rx<Ry  Else Rx=0 | 101 xx yy |
| sub Rx, Ry | Rx = Rx - Ry | 000 xx yy |
| bezR2 imm | If R2==0, PC+=imm else PC=PC+1 | 100 iiii |
| initR2 | Initialize R2 to 5 | 1111000 |
| initR3 | Initialize R3 to 5 | 1111001 |
|  |  | 1111100 |
| beqN | If R1=R0, branch to Next | 1111110 |
| beqInc | If R0=R1, branch to Increment | 1111101 |
| stop | Exit the program | 1111111 |