SIM-8 PROGRAMS June 2024

PULSE MULTIPLICATION (X*Y) [0000]: NOP [0000] [0000] [0001]: LDA [0001] [1110] DIVISION (X/Y) [0010]: LDA [0001] [1111] [0011]: JMP [0110] [0001] [1110]: xxxxxxxx MODULAR (X%Y) [1111]: ууууууу COUNT [0000]: NOP [0000] [0000] [0001]: LDI [0101] [xxxx] [0010]: STA [0100] [1111] [0011]: LDI [0101] [0000] [0100]: ADD [0010] [1111] [0101]: OUT [1110] [0000] [0110]: JMP [0110] [0100] OSCILLATOR [0000]: NOP [0000] [0000] [0001]: OUT [1110] [0000] [0010]: ADD [0010] [1111] [0011]: JC [0111] [0101] [0100]: JMP [0110] [0001] [0101]: SUB [0011] [1111] [0110]: OUT [1110] [0000] [0111]: JZ [1000] [0001] [1000]: JMP [0110] [0101] [1111]: xxxxxxx ADDITION (X+Y) [0000]: NOP [0000] [0000] [0001]: LDA [0001] [1110] [0010]: ADD [0010] [1111] [0011]: OUT [1110] [0000] [0100]: HLT [1111] [0000] [1110]: xxxxxxx [1111]: уууууууу SUBTRACTION (X-Y) [0000]: NOP [0000] [0000] [0001]: LDA [0001] [1110] [0010]: SUB [0011] [1111] [0011]: OUT [1110] [0000] [0100]: HLT [1111] [0000] [1110]: xxxxxxxx

[1111]: ууууууу