

Machine Code Practice

Fill in the table below with the letter of the machine code that matches the assembly language instruction.

| | Machine Code | Matching Machine Code Letter | Assembly Language Instruction |
|---|-------------------|------------------------------|-------------------------------|
| A | 01 C3 | | push %rbp |
| B | 67 29 40 04 | | addl %ebx, %eax |
| C | 67 01 18 | | addl %eax, %ebx |
| D | 81 EB 90 00 00 00 | | addl %ebx, (%eax) |
| E | 2D 90 00 00 00 | | addq 4(%rax), %rbx |
| F | 67 03 58 04 | | push \$0x90 |
| G | 48 03 58 04 | | movl \$0x90, %ebx |
| H | E8 00 00 00 00 | | subl \$0x90, %eax |
| I | 89 C3 | | movl \$0x90, %eax |
| J | 4C 29 C0 | | subl %eax, 4(%eax) |
| K | BB 90 00 00 00 | | addl \$-0x90, %eax |
| L | 01 D8 | | movl 4(%eax), %ebx |
| M | 55 | | subl %ebx, (%eax) |
| N | 53 | | subq %r8, %rax |
| O | 68 90 00 00 00 | | subl \$0x90, %ebx |
| P | 67 8B 58 04 | | movl %eax, %ebx |
| Q | 67 29 18 | | addl 4(%eax), %ebx |
| R | B8 90 00 00 00 | | call printf |
| S | 05 70 FF FF FF | | push %rbx |