Analysis of Logic Instructions

Question 1:   (10 points)

(V06) Explain what the following sequence of RISC-V assembly does. This question is <u>not</u> asking you to explain what each individual instruction does. Rather, it asks you to follow the logic in the sequence and state, in an English statement, what is the effect of executing these instructions in the values stored in any register that is changed by the execution of the sequence.

```
addi     s0, zero, 1
slli     s0, s0, 31
srai     s0, s0, 15
srli     s0, s0, 8
xori     s0, s0, -1
and      s1, s0, s1
```