Question 4 (10 points): Consider the following segment of C code:

```
...
V[V[i]] = V[V[i+1]];
```

The variable i is declared as an integer, and variable V is declared as an array of integers.

a. (5 points) Immediately prior to the execution of this statement, V and i are in RISC-V registers. How many load instructions and how many store instructions must be used in the RISC-V assembly code that executes this C statement?

b. (5 points) Immediately prior to the execution of this statement, V and i are in memory locations in the stack frame of the function. How many load instructions and how many store instructions must be used in the RISC-V assembly code used to generate the code for this assignment?