Question 5 (30 points):

Write the RISC-V assembly code for function `reverseAll`. The parameters for `reverseAll` are as follows:

- `a0`: the address of the first position of an array `S` of pointers to strings
- `a1`: the address of the first position of an array `L` of non-negative integers. For any index `i`, `L[i]` contains the length of the string whose address is in `S[i]`. The length of a string does not include the null character that terminates the string.

A position of the array S with the value `0xFFFFFFFF` is a sentinel that indicates the end of the array.

For each string whose address is in the array S, `reverseAll` must invoke the function `reverseString` from question 5 to reverse the order of the characters in the string.

`reverseAll` does not have any return values.

Your RISC-V code must follow all the register saving/restoring convention of RISC-V.

RISC-V code for `reverseAll`