

Lecture 14 Program 2

Lecture 14 Exercise 1
Reversing the order of a string
of numbers using the stack

```
main:    .text
         lw $t0,num1
         sub $sp,$sp,4
         sw $t0,0($sp)
         lw $t0,num2
         sub $sp,$sp,4
         sw $t0,0($sp)
         lw $t0,num3
         sub $sp,$sp,4
         sw $t0,0($sp)
         lw $t0,num4
         sub $sp,$sp,4
         sw $t0,0($sp)

         lw $a0,0($sp)
         addi $sp,$sp,4
         li $v0,1
         syscall
         li $v0,11
         li $a0 0x0a
         syscall
         lw $a0,0($sp)
         addi $sp,$sp,4
         li $v0,1
         syscall
         li $v0,11
         li $a0 0x0a
         syscall
         lw $a0,0($sp)
         addi $sp,$sp,4
         li $v0,1
         syscall
         li $v0,11
         li $a0 0x0a
         syscall
         lw $a0,0($sp)
         addi $sp,$sp,4
         li $v0,1
         syscall

         li $v0,10
         syscall

num1:    .word 34527
num2:    .word 98564
num3:    .word 12953
num4:    .word 68577
```