

Lecture 17 Program 2

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# Lecture 17 Program 2
# Outputting the largest numerical
# value of an ASCII character in "Hello, world!\n"
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.text
main:  la $t0, str
       lb $t1, ($t0)
loop:  lb $t2, 1($t0)
       beqz $t2, done
       bge $t1, $t2, next
       move $t1, $t2
next:  addi $t0, $t0, 1
       j loop
done:  move $a0, $t1
       li $v0, 1
       syscall
       li $a0, 0x0a
       li $v0, 11
       syscall
       move $a0, $t1
       syscall
       li $v0, 10
       syscall

.data
str:   .asciiz "Hello, world!\n"
```