

```

1      .data
2  str:  .ascii "Please enter one number: "
3  str0: .ascii "and now another one: "
4  str1: .ascii "The two numbers are equal\n"
5  str2: .ascii "The two numbers are not equal\n"
6  str3: .ascii "The greater number is number "
7  str4: .ascii "\nThe smaller number is number "
8
9      .text
10     .globl main
11  main: la $a0, str
12        li $v0, 4
13        syscall
14
15        li $v0, 5
16        syscall
17        move $t1, $v0
18
19        la $a0, str0
20        li $v0, 4
21        syscall
22
23        li $v0, 5
24        syscall
25        move $t2, $v0
26
27        beq $t1, $t2, equal
28
29        la $a0, str2
30        li $v0, 4
31        syscall
32        j ch2
33
34  equal: la $a0, str1
35        li $v0, 4
36        syscall
37
38  ch2:   bge $t1, $t2, greater
39        move $t3, $t1
40        move $t1, $t2
41        move $t2, $t3
42
43  greater: la $a0, str3
44          li $v0, 4
45          syscall
46
47          add $a0, $zero, $t1
48          li $v0, 1
49          syscall
50
51          la $a0, str4
52          li $v0, 4
53          syscall
54
55          add $a0, $zero, $t2
56          li $v0, 1
57          syscall
58
59  end:   jr $ra
60

```