填空

- **a)** $(00100011)_B$
- **b)** $(15)_{H}$
- **c)** $(110111101)_B$
- **d)** $(132)_D$
- **e**) 是
- f) 0xff88
- g) 0x00012344,0x00012354

```
\# t0 = mem[a0]
```

a0 = a0 + 4

t1 = t0 & 1

若tO是偶数返回 loop

第2题

# 0x00082021			
# 0x34020004			
# 0x000000c			
# 0x2108ffff			
# 0x1500fffb			
# 0x32f0ffc0			
# 0x01f02025			
# 0xa2c40004			
# 0x0017b902			

```
.data
example100: .space 400
.text
main:
   la $a0, example100 # load address
   li t0, 0 # int i = 0
   1i $s0, 0 # int sum = 0
for:
   beq $t0, 100, return # i == 100
   lw $t1, ($a0) # $t1 = *a0
   add $s0, $s0, $t1 # sum += $t1
   sw $s0, ($a0) # *a0 = sum
for_end:
   add $a0, $a0, 4 # a0++
   add $t0, $t0, 1 # i++
   j for
return:
   li $v0, 10 # return 0
   syscall
```

```
.data
src: .space 400
dest: .space 400
.text
main:
   la $a0, src # load address
   la $a1, dest # load address
   li t0, 0 # int i = 0
for:
   beq $t0, 100, return # i == 100
    1w $t1, ($a0) # $t1 = *a0
    sw $t1, ($a1) # *a1 = $t1
for_end:
   add $a1, $a1, 4 # a1++
   add $a0, $a0, 4 # a0++
   add $t0, $t0, 1 # i++
    j for
return:
   li $v0, 10 # return 0
   syscall
```

```
.data
endl: .asciiz "\n"
.text
main:
   li $v0, 5
   syscall
   move $a0, $v0 # cin >> $a0
   jal abs
   li $v0, 1
   syscall
   la $a0, endl
   li $v0, 4
   syscall
   1i $v0, 5
   syscall
   move $a0, $v0 # cin >> $a0
   jal abs
   li $v0, 1
   syscall
   li $v0, 10
   syscall
abs:
   bgez $a0, return
   sub $a0, $0, $a0 # -$a0
return:
   jr $ra
```

```
.data
array: .space 400
.text
main:
   1i $v0, 5
   syscall
   move $s0, $v0 # cin >> n
   la $a1, array
   add $a0, $a1, 4
   li $t0, 1
   sw $t0, ($a0) # fib[1] = 1
   sw $t0, ($a1) # fib[0] = 1
   li t0, 2 # int i = 2
for:
   bge $t0, $s0, return # i == n
   lw $t2, ($a0) # fib[i - 1]
   lw $t3, ($a1) # fib[i - 2]
   add t1, t2, t3 # fib[i] = fib[i - 1] + f[i - 2]
   add a0, a0, 4 \# a0 = fib[i]
   sw $t1, ($a0)
   add a1, a1, 4 \# a1 = fib[i - 1]
for_end:
   add $t0, $t0, 1 # i++
   j for
return:
   lw $t0, ($a0)
   move $a0, $t0
   li $v0, 1
   syscal1
   li $v0, 10
   syscall
```

```
.text
main:
   1i $v0, 5
   syscall
   move $a0, $v0
   1i $v0, 5
   syscall
   move $a1, $v0
   1i $v0, 5
   syscall
   move $a2, $v0
   jal fun
   li $v0, 10
   syscal1
fun:
   bgt $a0, $a1, if1
   j if1_end
if1:
   move $t0, $a0
   move $a0, $a1
   move $a1, $t0
if1_end:
   bgt $a1, $a2, if2
   j return
if2:
   move $t0, $a1
   move $a1, $a2
   move $a2, $t0
   bgt $a0, $a1, if3
   j return
if3:
   move $t0, $a0
   move $a0, $a1
   move $a1, $t0
return:
   jr $ra
```