

Albert Comas

Grup 20

①

Dividir entre 2 devido a $1 < 4 \dots 07$ de R7:

MOVE R1, 1

IN R2, 1

CMPEQ, R3, R2, R1

BZ R3, -3

IN R4, 0

LD R5, 0(R7)

SAL R4, R4, R5

IN R2, P-STAT

CMPEQ R3, R2, R1

BZ, R3, -3

OUT P-DATA, R4

BNZ R3, -11

②

MOVE R0, 0
MOVE R1, 0x63
MOVE R2, 0x00
MOVE R2, 0x20
MOVE R3, 0x00
MOVE R0, R1
MOVE R1, R3
MOVE R3, R0
LDB R1, 0(R2)
ST 0(R1), R4
ADDI R1, R1, -1
ADDI R2, R2, 1
BNZ R1, -8

③

MOVE R0, 0
MOVE R1, 1
MOVE R2, 50
MOVE R3, 25
MOVE R4, 0
LW R5, STATUS
CMPEQ R6, R5, R1
BZ R6, -3
LW R7, data
CMPLZ R6, R1, R7
BNZ R6, 4

SUB R7, R7, R3
CMLT R6, R7, R0
BNZ R6, 1
ADDI R4, R4, 1
ADDI R2, R2, -1
BNZ R2, -12

④

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MOVZ R0, 0x64  
MOVZ R1, 0x00  
MOVH R1, 0x30  
MOVZ R2, 0x01  
MOVH R2, 0x30  
LDB R3, 0(R1)  
LDB R4, 0(R2)  
ST 0(R1), R4  
ST 0(R2), R3  
ADDI R1, R1, R2  
ADDI R2, R3, 2  
SUBI R0, R0, 2  
BNZ, R0, -8
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