Name Ismael Cortez

Please use pencil and erase mistakes. No books, notes or electronic devices. 10 points

Some useful instructions: and andi or ori sll srl sra

Write a complete MIPS program that sets a 1 bit into the low-order position of \$t0, then, using only bits directly derived from that single bit, sets the pattern 0x96969696 into \$t1. You may explain your thinking in comments to the right of each assembly mnemonic; but otherwise add no comments.

- . text
- · globl Main

vain:

ori \$t0, \$0, 0x01 511 \$t1, \$t0, 3 or \$t1, \$t0, \$t1 511 \$t2, \$t0, 1 or \$t0, \$t0, \$t2 311 \$ to, \$to, 1. 511 \$ E1, \$ E1, 4 or \$t1, \$t0, \$t1. 511 \$t0, \$t1, 8. Or \$11, \$t0, \$11. SII \$t0, \$t1, 16. or \$t1, \$t0, \$t1.

# \$t0 = 0001# \$t1 = 1000# \$t1 = 1001# \$t2 = 0010# \$t0 = 0011# \$t0 = 0110# \$t1 = 1001 0000# \$t1 = 1001 0110#  $$t0 = 0 \times 9600$ #  $$t1 = 0 \times 9696$ 

# \$t0= 0x 9696 0000

# \$t1 = 0x 96969696