

(Assignment, individual) Conversion in proc2.s

Convert the following line in proc2.s to machine code and then back to MIPS instructions at the following addresses:

- ①0x0040000c
- ②0x00400014
- ③0x0040002c
- ④0x00400034

You must show all the steps including values of the instruction fields in order to receive points.

Verify your answers with the Text Segment window.

Bkpt	Address	Code	Basic	Source
<input type="checkbox"/>	0x00400000	0x2010fff1	addi \$16,\$0,0xffffffff1	7: addi \$s0, \$zero, -15
<input type="checkbox"/>	0x00400004	0x24020005	addiu \$2,\$0,0x00000005	9: li \$v0, 5 #read value from user
<input type="checkbox"/>	0x00400008	0x0000000c	syscall	10: syscall
<input checked="" type="checkbox"/>	0x0040000c	0x00028821	addu \$17,\$0,\$2	11: move \$s1, \$v0
<input type="checkbox"/>	0x00400010	0x0211402a	slt \$8,\$16,\$17	14: slt \$t0, \$s0, \$s1
<input checked="" type="checkbox"/>	0x00400014	0x11000006	beq \$8,\$0,0x00000006	17: beq \$t0, \$zero, LEEQ
<input type="checkbox"/>	0x00400018	0x08100007	j 0x0040001c	20: j GRT
<input type="checkbox"/>	0x0040001c	0x24020004	addiu \$2,\$0,0x00000004	22: GRT: li \$v0, 4
<input type="checkbox"/>	0x00400020	0x3c011001	lui \$1,0x00001001	23: la \$a0, str1
<input type="checkbox"/>	0x00400024	0x34240000	ori \$4,\$1,0x00000000	
<input type="checkbox"/>	0x00400028	0x0000000c	syscall	24: syscall
<input checked="" type="checkbox"/>	0x0040002c	0x08100011	j 0x00400044	25: j END
<input checked="" type="checkbox"/>	0x00400030	0x24020004	addiu \$2,\$0,0x00000004	27: LEEQ: li \$v0, 4
<input checked="" type="checkbox"/>	0x00400034	0x3c011001	lui \$1,0x00001001	28: la \$a0, str2
<input type="checkbox"/>	0x00400038	0x3424000e	ori \$4,\$1,0x0000000e	
<input type="checkbox"/>	0x0040003c	0x0000000c	syscall	29: syscall
<input type="checkbox"/>	0x00400040	0x08100011	j 0x00400044	30: j END
<input type="checkbox"/>	0x00400044	0x2402000a	addiu \$2,\$0,0x0000000a	32: END: li \$v0, 10
<input type="checkbox"/>	0x00400048	0x0000000c	syscall	33: syscall

