

Course > Graded Quizzes (Spring 22) > Graded Quiz 01 (26th Feb) > Graded Quiz 1 **Graded Quiz 1** Quiz due Feb 26, 2022 19:40 +06 Past due The following MCQ questions each carry 1 mark. Total 10*1 = 10 Marks. Each question has one attempt. **Multiple Choice** 1.0/1.0 point (graded) In a procedure call, callee procedure has to save in stack which of the following register's contents? \$a0) \$v1 \$t1 **)** \$s1 Submit You have used 1 of 1 attempt **MCQ** 1.0/1.0 point (graded) sll \$5,\$3, 5 In the binary encoding of the above instruction, determine the contents of **shamt** field. 00110 00011 00101 Submit You have used 1 of 1 attempt **Multiple Choice** 0.0/1.0 point (graded)

Which instruction is responible for saving the return address for a	
jal ✓	
) jra	
o jr	
ja	
×	
Submit You have used 1 of 1 attempt	
Answers are displayed within the problem	
Multiple Choice	
0.0/1.0 point (graded) Consider the following C Code:	
x=B[6]	
where the value of x is in $\$s1$ and the base address of the byte arr	ay B is in \$s2. If B[6] consists
the data 11010010, what will be loaded in \$s1 if we write the follo	wing MIPS code for 32-bit
architecture?	
lb \$s1, 6(\$s2)	
<u> </u>	
00000000 00000000 00000000 11010010	
00000000 11010010	
<u> </u>	
×	
Submit You have used 1 of 1 attempt	
Answers are displayed within the problem	
Multiple Choice	
1.0/1.0 point (graded)	
What will be the jump address of j 2020 if PC holds 0x12341110)?
O x 12341114	
O x 10000FC8	

Tayl to point (graded) Suppose, the exact memory location of A[i] is in \$t0. Which instruction can we use to load the value of A[i+2] in \$t1? (Consider the values of array A is in 32 bits) Ivs \$t1, 0(\$t0)	/22, 4:42 PM Graded Quiz 1 Gra	raded Quiz 01 (26th Feb) CSE340 Courseware buX BRAC University
Submik **Submik** **Now hower used 1 of 1 attempt **Multiple Choice **Lift 10 point graded: Suppose, the exact memory location of A[i] is in \$10. Which instruction can we use to load the value of A[i+2] in \$1? (Consider the values of array A is in 32 bits) **Now \$11, 0(\$10) **Now \$11, 0(\$10) **Now \$11, 4(\$10) **Now \$11, 4(\$10) **Now \$11, 16(\$10) ** **Submik** **Now hower used 1 of 1 attempt **Multiple Choice **Lift 10 point graded: **Discrete in MIPS architecture, which of the following instructions should be used? **Lift 10 Lift 10 Li	O x 12343130	
Multiple Choice 1.0/1.0 point (graded) Suppose, the exact memory location of A[i] is in \$t0. Which instruction can we use to load the value of A[i+2] in \$t1? (Consider the values of array A is in 32 bits) Inv \$t1.0 (\$t0)	O x 10000110	
Multiple Choice 1.0/10 point (graded) Suppose, the exact memory location of A[i] is in \$10. Which instruction can we use to load the value of A[i+2] in \$11? (Consider the values of array A is in 32 bits) Iw \$11, 0(\$10)	✓	
Suppose, the exact memory location of A[i] is in \$t0. Which instruction can we use to load the value of A[i+2] in \$t1? (Consider the values of array A is in 32 bits) Iv \$t1, 0(\$t0) Iv \$t1, 0(\$t0) Iv \$t1, 4(\$t0) Iv \$t1, 4(\$t0) Vou have used 1 of 1 attempt Multiple Choice	Submit You have used 1 of 1 attempt	
value of A[i+2] in \$t1? (Consider the values of array A is in 32 bits) Iw \$t1, 0(\$i0) Iw \$t1, 0(\$i0) Iw \$t1, 16(\$t0) Vou have used 1 of 1 attempt	Multiple Choice 1.0/1.0 point (graded)	
In the second of the second		
In the set of the se	O lw \$t1, 0(\$t0)	
w \$11, 16(\$t0) Wultiple Choice 1.0/1.0 point (graded) For loading UTF-16 encoded characters (Each characters are encoded using 16 bits) into a register in MIPS architecture, which of the following instructions should be used? LB LBU LBU LW SB W Submit You have used 1 of 1 attempt Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	w \$t1, 8(\$t0)	
Multiple Choice 1.0/1.0 point (graded) For loading UTF-16 encoded characters (Each characters are encoded using 16 bits) into a register in MIPS architecture, which of the following instructions should be used? LB LBU LBU SB Wou have used 1 of 1 attempt Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	O lw \$t1, 4(\$t0)	
Multiple Choice 1.0/1.0 point (graded) For loading UTF-16 encoded characters (Each characters are encoded using 16 bits) into a register in MIPS architecture, which of the following instructions should be used? LB LBU LW SB Vou have used 1 of 1 attempt Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	() lw \$t1, 16(\$t0)	
Multiple Choice 1.0/1.0 point (graded) For loading UTF-16 encoded characters (Each characters are encoded using 16 bits) into a register in MIPS architecture, which of the following instructions should be used? LB LBU LW SB Vou have used 1 of 1 attempt Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	✓	
□ LBU □ LW □ SB □ Submit You have used 1 of 1 attempt Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	_	_
© LH ○ LW ○ SB ✓ Submit You have used 1 of 1 attempt Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	○ LB	
LW SB ✓ Submit You have used 1 of 1 attempt Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	LBU	
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Submit You have used 1 of 1 attempt Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	○ LW	
Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	○ SB	
Multiple Choice 0.0/1.0 point (graded) The instruction BLT is a/an-	✓	
0.0/1.0 point (graded) The instruction BLT is a/an-	Submit You have used 1 of 1 attempt	
The instruction BLT is a/an-	Multiple Choice	
	0.0/1.0 point (graded)	
R-format instruction	The instruction BLT is a/an-	
	R-format instruction	

00011 and 00101 respectiveley

Submit

You have used 1 of 1 attempt

The following question holds 5 marks.

You are not allowed to use pseudoinstructions and li/mul/mult/div instructions. The question is fulfilling the CO2 of CSE340 OBE Curriculum

Write down the MIPS assembly instruction sequence of the following high-level language code. Assume all variables are integers and; x, y, and z are in the argument registers \$a0, \$a1, and \$a3 respectively. Use \$v0 for returning a value from the function.

```
Function median (x, y, z)
{
  If (x < y)
   If (y < z)
                  return y;
            else if (x < z)
              return z;
            return x;
}
```

OPEN RESPONSE ASSESSMENT

Status

You have completed this assignment. Your final grade will be available when the assessments of your response are complete.

Your Response due Jan 1, 2029 06:00 BDT (in 6 years, 7 months) ✔ COMPLETE

Status

Your response has been submitted. You will receive your grade after all steps are complete and your response is fully assessed.

The question for this section

Write down the answer to the above question in the given space below. You cannot use pseudo instructions. Additionally, li/mult/div/mul instructions are not allowed.

Your response

```
jas Function medisan
sll t0 a0 a1beq t0 zero L1
sll t1 a1 a3
beg t1 zero else if
add vo a1 zero
jr ra
else if:
sll t2 a0 a3
beq t2 zero L1
add v0 a3 zero
jr ra
L1:
add v0 a0 zero
Exit
```

jas Function medisan sll t0 a0 a1beq t0 zero L1 sll t1 a1 a3 beq t1 zero else if add vo a1 zero jr ra else if: sll t2 a0 a3 beq t2 zero L1 add v0 a3 zero jr ra L1: add v0 a0 zero Exit

Staff Grade NOT AVAILABLE

Waiting for a Staff Grade

Check back later to see if a course staff member has assessed your response. You will receive your grade after the assessment is complete.

▼Your Grade: Waiting for Assessments

Status

The grade for this problem is determined by your Staff Grade.

You have completed your steps in the assignment, but some assessments still need to be done on your response. When the assessments of your response are complete, you will see feedback from everyone who assessed your response, and you will receive your final grade.

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