Autograder Results

Results | Code

Autograder Output

```
Python 3.6.9
Building testcases...
Finished building testcases


[[ WORD: 3 ]]

Attempting to assemble...
Assembling for LC-22 architecture...
Writing to submission/hanoiAuto1.bin...done!

Running tests...
[PASS] Correct return value (Your $v0 = 7, expected: 7)
[PASS] Stack pointer ends at 0xFFFF (Your $sp = 65535, expected: 65535)


[[ WORD: 7 ]]

Attempting to assemble...
Assembling for LC-22 architecture...
Writing to submission/hanoiAuto2.bin...done!

Running tests...
[PASS] Correct return value (Your $v0 = 127, expected: 127)
[PASS] Stack pointer ends at 0xFFFF (Your $sp = 65535, expected: 65535)


[[ WORD: 14 ]]

Attempting to assemble...
Assembling for LC-22 architecture...
Writing to submission/hanoiAuto3.bin...done!

Running tests...
[PASS] Correct return value (Your $v0 = 16383, expected: 16383)
[PASS] Stack pointer ends at 0xFFFF (Your $sp = 65535, expected: 65535)
```

STUDENT

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AUTOGRADER SCORE

40.0 / 40.0

QUESTION 2

Stack Manipulation

15.0 / 15.0 pts

✔	− 0 pts	Correct
	− 10 pts	Stack grows in the wrong direction (the correct direction is top of stack > lower memory)
	− 10 pts	Improperly allocates space on the stack (i.e. allocates 4 words for $sp)
	− 5 pts	Stack pointer does not always point to valid memory (i.e. data is added, then $sp is moved down to point to an empty space)
	− 10 pts	Improper use of JALR (jumping to the wrong location, incorrect arguments, etc.)

QUESTION 3

Register Saving

25.0 / 25.0 pts

✔	− 0 pts	Correct
	− 10 pts	Not saving and/or restoring frame pointer, setting it up improperly, etc.
	− 10 pts	Not saving $ra, or saving it as a callee
	− 5 pts	One or more $s registers saved by the caller and/or one or more $t registers saved by the callee
	− 5 pts	Saved registers in the wrong order per the calling convention (such as $ra saved after $fp)
	− 25 pts	Registers are never saved on the stack
	− 5 pts	improperly save registers

QUESTION 4

Short Answer

20.0 / 20.0 pts

QUESTION 4

Short Answer

20.0 / 20.0 pts

✔	**− 0 pts**	Correct
	− 4 pts	Does not use an offset of 1 for LEA
	− 4 pts	Incorrect format for an instruction
	− 10 pts	Incorrectly loads the return address into a register (i.e. without an LEA instruction, or using a label as an operand in the LEA instruction)
	− 10 pts	Incorrectly unconditionally branches to some target label
	− 10 pts	Incorrectly loads the return address into memory instead of a register
	− 10 pts	Never saves the return address into a register
	− 20 pts	Blank/no answer