

Assignment Project Exam Help

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Question 15 (2 points)

In an object file, what does the **relocation** table contain?

- A list of the file's labels and data that can be referenced.
- The binary representation of the data in the source file.
- A list of lines of code that need to be modified later.
- The file's machine code.

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(You can skip this)

Question 22 (Mandatory) (0.0001 points)

Remember that this is a timed exam which is expected to be 3hrs in length. You have 6.5 consecutive hrs (390 consecutive minutes) from the time you start, to complete it. It is open text book, open mycourses material, lecture notes and slides. However, you are not to use logisim or MARS and you are not to consult any external sources or discuss the contents of the exam during the 72 hr period from December 11th 14:00 hrs to December 14th 14:00 hrs.

Each question is multiple choice and there is only one correct answer per question.
There are 50 questions in total, each of which is worth 2 points. You can change your response to any question at a later time, should you wish to.

COMP 273 FALL 2020 FINAL EXAM COVER PAGES

Click on the link above to review the two cover pages of the final examination. Then type your name in the space provided for a "written response". By doing so you are affirming that you are signing the statement of academic integrity and that you will comply with all the terms of the final examination.

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Question 25 (2 points)

The next question pertains to the following MIPS subroutine Goo, which assumes that the value of a non-negative integer n has been passed via the argument register \$a0.

```
Goo: addi $sp,$sp,-8
      sw $ra,4($sp)
      sw $a0,0($sp)

      slti $t0,$a0,1
      beq $t0,$zero,L1
      addi $v0,$zero,1
      addi $sp,$sp,8
      jr $ra

L1:  addi $a0,$a0,-1
      jal Goo

      lw $ra,4($sp)
      lw $a0,0($sp)
      mul $v0,$v0,$a0
      addi $sp,$sp,8
      jr $ra
```

Which of the following statements is false?

- The subroutine Goo will terminate.
- There is no need for the subroutine Goo to save \$ra.
- The subroutine Goo uses the stack.
- The subroutine Goo is recursive.

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Question 40 (2 points)

Of the choices below, what best describes a flip flop?

- It is a set of registers.
- It is a clock that cycles between HIGH and LOW.
- It is a cell capable of storing one bit of information.
- It is an analog device capable of providing synchronization.

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