

General Instruction

- Allowed submission file type: PDF only
 - I recommend that you type your answers to questions by using a word processor (Microsoft Word, LibreOffice Writer, L^AT_EX, etc.).
 - If you would write your answers to questions on papers, then you can scan them by using a scanner (Not phone/tablet/laptop camera) and convert to a single PDF file (Not separate image files). Please use a pen and make it legible.
 - Submit your work in the Dropbox folder via BeachBoard (Not email or in class).
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1. (10 points) Assume that the base address of the array A is in register \$s6. What is the value of \$s0?

```
addi $t0, $s6, 4
add  $t1, $s6, $0
sw   $t1, 0($t0)
lw   $t0, 0($t0)
add  $s0, $t1, $t0
```

2. (10 points) For the register content \$t0 = 0x12345678, what is the value of \$t1 after the following sequence of instructions?

```
srl  $t1, $t0, 16
andi $t1, $t1, -1
```

3. (10 points) For the register contents \$t0 = 0xAAAAAAAA and \$t1 = 0x12345678, what is the value of \$t2 after the following sequence of instructions?

```
sll  $t2, $t0, 4
or   $t2, $t2, $t1
```