CA Lecture 7 Quiz

- Implement the following program in C and in RISC-V!
- We will not compile or run your code you will be graded on understanding the concepts!
- Be sure to **SAVE** the PDF. Copy the code to another editor before closing the PDF. Close and open the PDF to see if the contents of the form were saved.
- Then submit on Gradescope: https://www.gradescope.com/courses/77872

```
#include #include int main(){

unsigned int x10, x11, x12, x14;
int x13;

/* Implement RISC-V each of the lines 11, 14, 18 & 21 */
/* Afterwards implement the bit count line 22 in C & RISC-V */

/* Do NOT use li for this! */
x10 = 7331;

/* Do NOT use mul for this! */
x11 = x10 >> 2;

/* Do NOT use a branch for this! */
/* Make sure it works for any x11! */
x12 = x11 < 1900;

/* Do NOT use 'sub' for this! */
x13 = -x11;

/* Count the number of 1's in the binary bit pattern of x13! */
/* You may change x13. */
/* Save the result in x14! */
/* Implmenet in C and RISC-V! */

/* Don't implement the printf */
printf(" %d %d %d %d \n", x10, x11, x12, x13, x14);

return 0;</pre>
```

Implement in C

Implement in RISC-V