Required:

- invent a RISC instruction set
- invent a binary encoding of your instruction set
- invent an assembly language for your instruction set
- invent a linkage convention
- show the assembly equivalent for a C function that takes a pointer to an array of ints and a count and returns the index of the largest integer value in the array.

Signature for the C function:

```c
int max(int* p, int count);
```

Beware. Your next project might be to do the logic design for your proposed instructions.