

Lab 7

Submit your program before the deadline

1. Implement a *recursive procedure* `pow` in MIPS assembly language that takes two integers, `base` and `exponent`, and returns $base^{exponent}$.

Your program should prompt the user for two integers, `base` and `exponent`, and print out the result returned from the procedure. You should pass `base` and `exponent` in `$a0` and `$a1`, respectively, and return the result in `$v0`. Note that your procedure must be recursive.

The signature of this procedure in C/Java would look like this: `int pow(int x, int y)`.