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CSE031

Lab 8

TPS Activity #1:

1. Since we are reading values from the user, the .data segment for n is not necessary and we do not to declare it. The la and lw instruction for n also becomes unnecessary since the value of n may not be what the user wants. Also, if we leave the la and lw for n the code will always overwrite the user input.

TPS Activity #2:

1. If x is 5, then the output will be 29.
2. We expect the return value to be stored in $v0. However, since the print statement uses the same register, we must store $v0 at a new address.
3. Four integer values are reserved in this storage. The first thing to be stored in the stack frame is the return address.
4. We need to store $a0 in the stack because we need to store multiple input arguments.
5. If we call recursion immediately, then $a0 will be equal to the result of recursion(m–2).
6. The return address needs to be retrieved so the programs knows what location to return to.