Emulator

The function fillArray takes the input file and stores it in the unsigned char* bytes (which represents memory).

The function decode interprets the y86 assembly through the switch case.

As per the pdf question, my code outputs the ending status of the program (i.e. AOK, INS, or ADR)

I interpreted ADR as invalid address if you're trying to reach a register that does not exist. Register values should be from 0-7.

For program 2, since it is calculating the factorial, if the user inputs anything outside the range of 1-13, it will say "input out of bounds" and stop the program. Otherwise, the program will only end if the user enters Ctrl+D (meaning EOF).