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// CS1412, Spring 2021
// Problem Solving & Program Design in C Lab 9 -
// In Lab Assignment Due end of the lab session Acknowledge your collaborators or source of solutions, if
// any. Submission by the end of the LAB is required. Please type your answers, handwritten submission will
// not be accepted. Do all of the following.
// 1. In the programming language C, a ____source/header___ file contains information about // what a specific library's functions will do. The __implementation____ file contains
// the details of how these actions are executed.
//// source/ header
//// implementation
// 2. When are variables of storage class static allocated? When are they deallocated?
//// Variables of storage class static are allocated when the program begins, and deallocated when the program ends.
//3. What will the following code print? Please explain the behavior of the code in a few words. (What is it printing and why is it printing
that?)
#include <stdio.h>
#define ISEQUAL(X, Y) X == Y
int main() {
        #if ISEQUAL(X, 0)
                printf("x");
    #else
            printf("y");
        #endif
                 return 0;
}
////\ {\it The program prints}\ x,\ {\it because the macro}\ x\ {\it is not defined, and when the macro}\ is\ {\it not defined the default value goes}
//// to zero, makeing #ISEQUAL(X, 0) true. Printing x.
```