Solve these three exercises in class using only pen and paper. When you're done, implement and test the code, and then grade yourself on a scale from 0 to 100. **Optionally,** submit with your name & date.

1. Write a declaration of an array named weekend containing seven bool values. Include an initializer that makes the first and last values true; all other values should be false, and print the array.

Tip: to get the bool type, you can include the stdbool. h file.

#+begin_src C :main yes :includes <stdio.h> :results output

#+end_src

2. The Fibonacci numbers are 0,1,1,2,3,4,5,13,... where each number is the sum of the two preceding numbers. Write a program that declares an array named fib of length 20, fills the array with the first 20 Fibonacci numbers, and prints the array. *Tip: Initialize the first two Fibonacci numbers as 1*.

#+begin_src C :main yes :includes <stdio.h> :results output

#+end_src

3. Initialize a 2 x 2 identity matrix and print it:

1 0 0 1

Hint: A two-dimensional array **a** is defined as **a**[M][N].

#+begin_src C :main yes :includes <stdio.h> :results output

#+end_src			
Name:			

Grade (0-100): _____