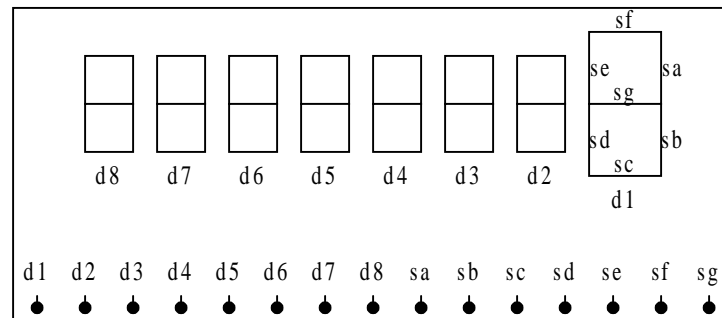


CS/EE 120B

Homework #3 Given 3/6/01. Due 3/13/01

1. Given an 8-digit seven segment display (similar to those used in a calculator) with the schematic as shown below



The seven segments, labeled sa to sf, are connected in common across the 8 digits. To turn on a segment for a particular digit, the segment pin (sa to sf) needs to be pulled low and the corresponding digit pin (d1 to d8) must be pulled high.

Draw the schematic to show how the above display can be interfaced with the 8051. Write the C code to display the number 31415926 on the eight digits.