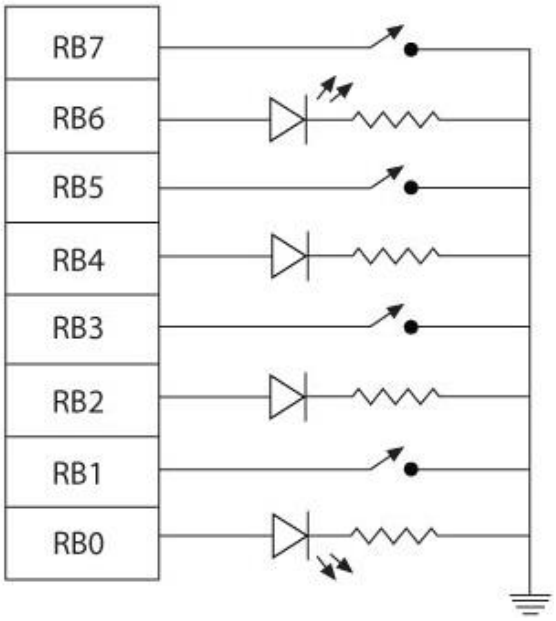
1. Given the switch and LED configuration below, write the assembly language instructions to properly initialize PORTB and then continuously read the input switches and turn ON the corresponding LEDs for the switches that are ON (grounded).

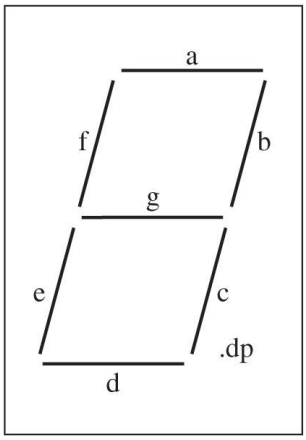


INTCON2

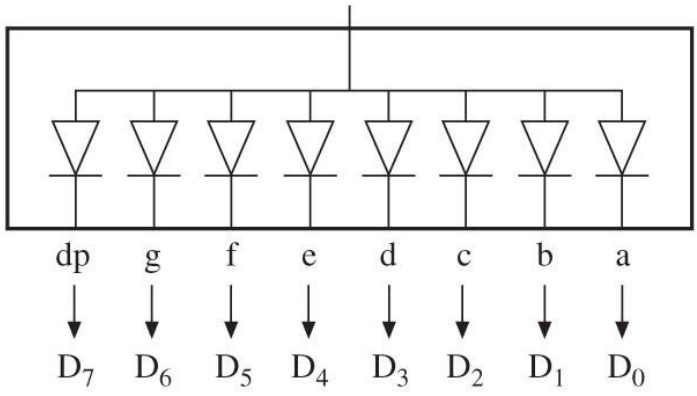
B7	B6	B5	B4	B4	B3
$\overline{\text{RBPU}}$					

$\overline{\text{RBPU}}$ = PORTB pull-up resistor enable bit
0 = Pull-up resistors are enabled
1 = Pull-up resistors are disabled

2. Given a common anode seven-segment display connected to PORTD below, write the assembly language instructions to initialize the port and flash the letter "C" every 100 ms. Assume the subroutine DELAY_100ms is available.



Common Anode



3. Write assembly language instructions to enable the A/D Converter and Timer2 Overflow as high priority interrupts. Also, write instructions to identify the interrupt source and vector the MPU to the appropriate ISR.