

Seven-Segment Display Problem

Read the following datasheet of a 2-digit 7-segment display. If we want to show the number 22 (twenty two) on this display using a two-byte number connecting to all 16 pins of the display as shown below. What should that two-byte number be in hexadecimal? Note that to turn on the LED, the current must flow from Anode to Cathode, i.e., from Pins 13 and 14 with TTL High (State 1) to TTL Low (State 0). Note also that we omit Pins 4 and 9 which are used for the decimal points.

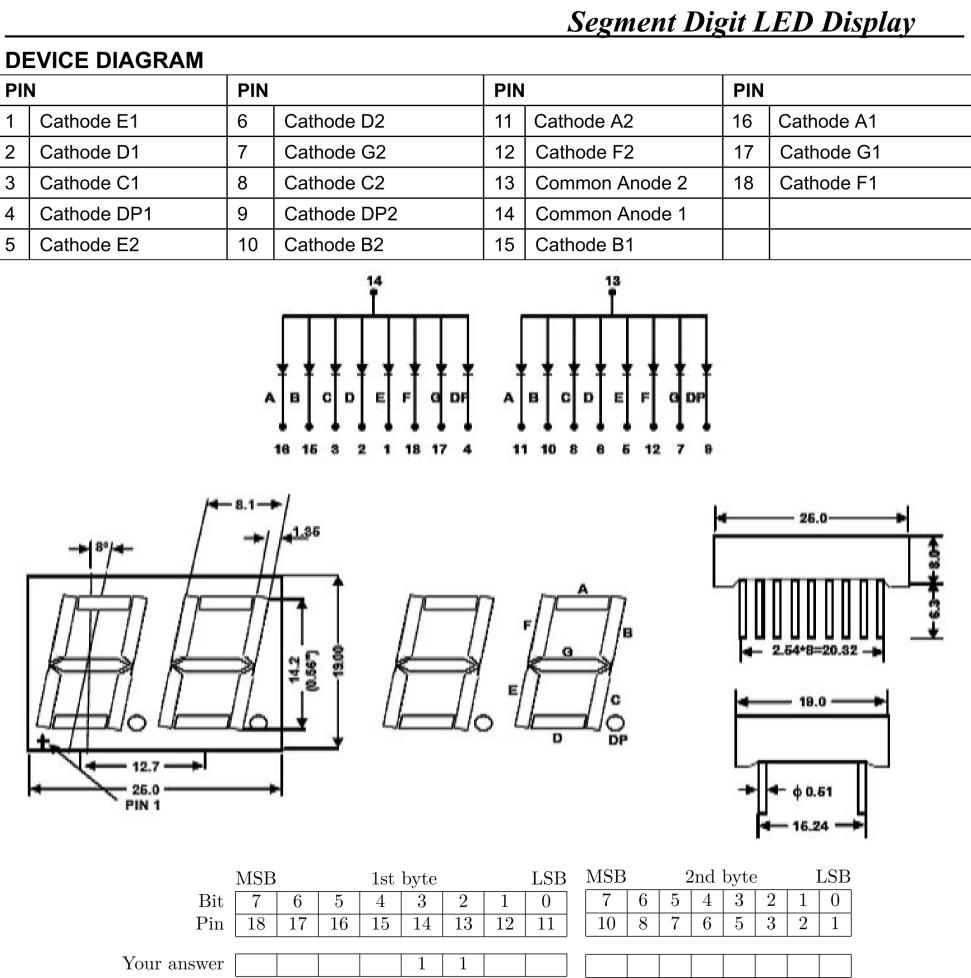


Figure 1: Seven-Segment Display Datasheet

Implementation

Goal: Declare and assign the **string** variable **ans** with the correct two-byte hexadecimal value to display the number 22 on the seven-segment display.:

```
ans="0xa32f" # Replace with the correct two-byte hexadecimal value
```