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18M19CS194
Final

Q. Display messages BANGALORE in rolling fashion on a 7-segment display interface for a suitable period of time.

```
#include <stdio.h>
#include <reg51.h>
char xdata CommW _at_ 0x803;
char xdata portB _at_ 0x801;
char xdata portC _at_ 0x802;
char port [20] = { 0xFF, 0xFF, 0xFF, 0xFF, 0x83, 0x88, 0x68, 0x82, 0x88, 0xC7, 0xC0, 0xAF, 0x86 };
delay ()
{
    long u;
    for (u = 0; u < 4000; u++);
}

void main ()
{
    int d, b, i, m;
    unsigned char k;
    CommW = 0x80;
    do
    {
        i = 0;
        for (d = 0; d < 1; d++)
        {
            for (b = 13; b > 0; b--)
```

```

{
    delay(1);
    k = port[i++];
    for (j = 0; j < 8; j++)
    {
        m = k;
        k = k << 0x80;
    }
    if (k == 0x0)
        portB = 0x00;
    else
        portB = 0x01;
    }
    portC = 0x01;
    portC = 0x00;
    k = m;
    k <<= 1;
    }
    }
    delay(1);
    }
}
while (1);
}

```