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Program - 84
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_ 0xe803;
char xdata portB _at_ 0xe801;
char xdata portC _at_ 0xe802;
char port[20] = { 0xff, 0xff, 0xff, 0xff, 0x83, 0x88,
                  0xc8, 0xc8, 0xc7, 0xc0, 0xaf, 0x86 }

delay()
{
    long u;
    for(u = 0; u < 4000; u++);
}

void main()
{
    int d, b, j, m;
    unsigned char k;
    commW = 0x80;
    do
    {
        u = 0;
        for(d = 0; d < 1; d++)
        {
            for(b = 13; b > 0; b--)
            {
                delay();
                k = port[i++];
                for(j = 0; j < 8; j++)
                {
                    m = k;
                    k = k << 0x80;
                }
            }
        }
    } while(1);
}
```

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```
if (K == 00)
    portB = 0x00;
else
    portB = 0x01;
```

```
}
```

```
    portC = 0x01;
```

```
    portC = 0x00;
```

```
    K = m;
```

```
    K <<= 1;
```

```
}
```

```
}
```

```
    delay(1);
```

```
}
```

```
}
```

```
while(1);
```

```
}
```