



■ Implementing varbyte

- assume that you write compressed data into an array of bytes
`unsigned char buffer[1000000];`
- that `writeByte(int val)` writes an `int < 256` into buffer
- and that `readByte()` reads and returns a byte from buffer

```
VarEncode(int number)
{
    while (num > 127)
    {
        writeByte(num & 127);
        num = num >> 7;
    }
    writeByte(128 + num);
}
```

```
int VarDecode()
{
    int val = 0, shift = 0;
    while ((b = readByte()) < 128)
    {
        val = val + (b << shift);
        shift = shift + 7;
    }
    val = val + ((b-128) << shift);
    return(val);
}
```

