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 1: #!/afs/cats.ucsc.edu/courses/cmps112-wm/usr/smalltalk/bin/gst -f
 2: "$Id: bitstream.st,v 1.4 2012-03-07 14:23:13-08 - - $"
 3: execname := '$RCSfile: bitstream.st,v $' =~ '.*: (.*),v.*' at: 1.
 4:
 5: Object subclass: BitStream [
 6:     |bitIndex byte myStream|
 7:     BitStream class >> new: fileStream [
 8:        |result|
 9:        result := super new.
10:        result init: fileStream.
11:        ^result
12:     ]
13:     init: fileStream [
14:        myStream := fileStream.
15:        bitIndex := 1.
16:     ]
17:     nextBit [
18:        bitIndex = 1 ifTrue: [
19:            byte := myStream next.
20:            bitIndex := 9.
21:        ].
22:        bitIndex := bitIndex - 1.
23:        ^byte value bitAt: bitIndex
24:     ]
25:     atEnd [
26:        ^bitIndex = 1 and: [myStream atEnd]
27:     ]
28: ]
29:
30: nl := Character nl.
31: stdinBits := BitStream new: stdin.
32: count := 0.
33: [stdinBits atEnd] whileFalse: [
34:     stdout << stdinBits nextBit.
35:     count := count + 1.
36:     count = 4 ifTrue: [stdout << ' '].
37:     count = 8 ifTrue: [stdout << nl. count := 0].
38: ]
39:
40: "TEST: echo hello world | ./bitstream.st 2>&1"
41:
```

```
 1: ****mks**** echo hello world | ./bitstream.st 2>&1 2>&1
 2: 0110 1000
 3: 0110 0101
 4: 0110 1100
 5: 0110 1100
 6: 0110 1111
 7: 0010 0000
 8: 0111 0111
 9: 0110 1111
10: 0111 0010
11: 0110 1100
12: 0110 0100
13: 0000 1010
14: ****status: 0x0000
15:
```