```
1: #!/afs/cats.ucsc.edu/courses/cmps112-wm/usr/smalltalk/bin/gst -f
 2: "$Id: extendstream.st,v 1.1 2019-02-01 14:36:25-08 - - $"
3:
 4: FileStream extend [
 5:
       |bitIndex currentChar|
 6:
7:
       nextBit [
8:
          |bit|
          bitIndex isNil ifTrue: [bitIndex := 0].
9:
10:
          bitIndex = 0 ifTrue: [
11:
             bitIndex := 8.
12:
             currentChar := self next.
13:
          ].
          bit := currentChar value bitAt: bitIndex.
14:
15:
          bitIndex := bitIndex - 1.
16:
          ^ bit
17:
       ]
18:
19:
       atBitEnd [
20:
          ^ (bitIndex isNil | (bitIndex = 0)) & self atEnd
21:
22:
23: ]
24:
25: nl := Character nl.
26: count := 0.
27: [stdin atBitEnd not] whileTrue: [
28:
       stdout << stdin nextBit.</pre>
29:
       count := count + 1.
       count = 4 ifTrue: [stdout << ' '].</pre>
30:
31:
       count = 8 ifTrue: [stdout << nl. count := 0].</pre>
32: ]
33:
34: "TEST: echo Hello World | extendstream.st"
35:
```

02/01/19 14:39:57

\$cmps112-wm/Assignments/asg3-smalltalk-hzip/example-files extendstream.st.lis

1/1

```
2: mkst: echo Hello World | extendstream.st
4: 0100 1000
5: 0110 0101
6: 0110 1100
7: 0110 1100
8: 0110 1111
9: 0010 0000
10: 0101 0111
11: 0110 1111
12: 0111 0010
13: 0110 1100
14: 0110 0100
15: 0000 1010
16: :::::::Exit status 0
```