```
1: #!/afs/cats.ucsc.edu/courses/cmps112-wm/usr/smalltalk/bin/qst -f
 2: "$Id: extendstream.st,v 1.3 2011-05-05 20:45:21-07 - - $"
 3:
 4: FileStream extend [
 5:
       |bitIndex currentChar|
 6:
7:
       nextBit [
          |bit|
8:
9:
          bitIndex isNil ifTrue: [bitIndex := 0].
10:
          bitIndex = 0 ifTrue: [
11:
             bitIndex := 8.
12:
             currentChar := self next.
13:
          ].
14:
          bit := currentChar value bitAt: bitIndex.
15:
          bitIndex := bitIndex - 1.
16:
          ^ bit
17:
       ]
18:
19:
       atBitEnd [
          ^ (bitIndex isNil | (bitIndex = 0)) & self atEnd
20:
21:
22:
23: ]
24:
25: nl := Character nl.
26: count := 0.
27: [stdin atBitEnd not] whileTrue: [
28:
       stdout << stdin nextBit.
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:
```

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\$cmps112-wm/Languages/smalltalk/Examples/extendstream.st.lis

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