6. De-Expansion

Program Name: Deexpansion.java   Input File: deexpansion.dat

Something went horribly wrong with the encrypted document backup process at work and all files were converted to strings containing 1's and 0's representing what the binary representation of the file was! Your boss needs a program, fast, that can restore all the files. All the original files were in 16 bit Unicode.

Input
A file containing a long string of 1's and 0's whose length is guaranteed to be a multiple of 16.

Output
The original file contents.

Example Input File
```
0010101000000000000101100000000010010110000000000110011100000000000000010000000
0001001011000000000011001110000000000000010000000000001011100000000000001011000
0000001010011000000000000001000000000001111011000000000010011100000000001001011
0000000001110011000000000100101100000000001110110000000001000011000000000000011
0110000000000000001000000000001100110000000001001011000000000001101100000000001
0100110000000000111010000000000101100000000000001010000000000000010110000000000
000101000000000000111000100000000011110110000000001111011000000000100110000
0000000000001000000000000101110000000000000010110000000001001011000000000011101100
0000000011100110000000000000010000000000010011100000000011101100000000010101
1100000000000000001000000000001001110000000001010011000000000110001100000000011
1101100000000001101110000000001010011000000000100111000000000010100110000000
0001001100000000000000010000000001001011000000000010111000000000100001000000
0000
```

(The actual input file contains only one line which appears to span many lines in the printed version.)

Example Output to Screen
```
This is the original file.

Good thing you recovered it!
```