Base Conversion

Write a program which converts a bit stream to base 10. The input file contains a string
of 1s and 0s (a binary number). The input string will not exceed 30 characters in length.
The output file should contain the equivalent base 10 number, followed by a carriage
return. Note that the leftmost bit is the most significant, so "1100" would represent 1
eight, 1 four, 0 twos and 0 ones, or the decimal number 12.

Example

input.txt:
1111110$

output.txt:
126$