## 

Gray to Binary Conversion. To convert from Gray code to binary, a similar method is used, but there are some differences. The following rules apply:

1. The most significant digit (left-most) in the binary code is the same as the corresponding digit in the Gray code.
2. Add each binary digit generated to the Gray digit in the next adjacent position. Disregard carries. Again, this is an exclusive-OR addition.

For example, the conversion of the Gray code number 11011 to binary is as follows:

Step 1. The left-most digits are the same.


Step 2. Add the last binary digit just generated to the Gray digit in the next position. Discard carry.


Step 3. Add the last binary digit generated to the next Gray digit.


Step 4. Add the last binary digit generated to the next Gray digit.


Step 5. Add the last binary digit generated to the next Gray digit.


Four-bit Gray-to-binary converter



