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Exercise 7.

1) а) $2002 = 1024 + 512 + 256 + 128 + 64 + 16 + 2 =$

$= 11111010010_2$

$1001 = 512 + 256 + 128 + 64 + 32 + 8 + 1 =$

$= 01111101001_2$

$2002 \oplus 1001 = 10000111011$

б) $10000111011 = 11111010010 = 2002$

$\quad 01234567891 0$

2) а) $695 = 512 + 128 + 32 + 16 + 4 + 2 + 1 = 1010110111_2$

$347 = 256 + 64 + 16 + 8 + 2 + 1 = 0101011011_2$

$695 \oplus 347 = 1111101100$

б) $1111101100 = 1010110111_2 = 695$

3) а) $39 = 32 + 4 + 2 + 1 = 100111_2$

$19 = 16 + 2 + 1 = 010011_2$

$39 \oplus 19 = 110100$

б) $110100 = 100111_2 = 39$

4) а) $4042 = 2048 + 1024 + 512 + 256 + 128 + 64 + 8 + 2 = 111111001010_2$

$2021 = 1024 + 512 + 256 + 128 + 64 + 32 + 4 + 1 = 011111100101_2$

$4042 \oplus 2021 = 100000101111$

б) $100000101111 = 111111001010_2 = 4042$