Section 4 Lecture 22 – Binary XOR

Solutions

Q1)

(i) This always works in general.

e.g.

```
10101011
01101110
-------------
11000101
```

Then XOR with 01101110 again:

```
11000101
01101110
-------------
10101011
```

The original message again.

Q2) You will always get the answer of all zero bits.

e.g.

```
10101011
10101011
-------------
00000000
```

Q3)

```
1010100101011101
0101010000111101
-----------------------
1111110101100000
```

Just verify that the XOR of any two gives the other one.