byte Operations in Java

print byte arrays in binary form

```
public static void printByteArrayInBinary(byte [] array)
{
    System.out.print("[");
    for(int i = 0; i < array.length-1; i++)
   {
        for(int j = 7; j >= 0; j--)
        System.out.print(
                Integer.toBinaryString((array[i]>>j)&0x01));
         System.out.print(", ");
    }
    for(int j = 7; j >= 0; j--)
        System.out.print(
            Integer.toBinaryString((array[array.length-1]>>j)&0x01));
    System.out.println("]");
}
```

byte Operations in Java

XOR byte arrays

```
public static byte [] xor(byte [] b1, byte [] b2)
{
    byte [] r = new byte[b1.length];

    for(int i=0; i<b1.length && i<b2.length; i++)
        r[i] = (byte) (b1[i]^b2[i]);
    return r;
}
```

byte Operations in Java

Count all bits equal to 1

```
public static int countOnes(byte [] b)
{
    int count = 0;
    for(int i = 0; i < b.length; i++)
    {
       for(int j = 0; j < 8; j++)
       {
           count += (b[i]>>j) & 0x01;
       }
    }
    return count;
}
```