

how to compare two number sequences

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Hi all:

I have two 32 bit long sequence of binary random numbers. When I compare them side by side I want to count all the transitions from one to zero, and all the transitions from zero to one between the two sequences like this:

```
01100110101010011010101010011001
00110110111001100101010111010101
  v ^ ^ v ^ ^ v ^ ^ v ^ ^ v ^ ^ v ^
```

Where v is when it goes low from the first to the second sequence and ^ when it goes high.

So far I have implemented an xor and I can count all the transitions but I cannot tell them apart (between high and low). Is there a function or a method that will allow me to tell them apart? If I could do this in one pass will be even better. Thanks in advance.