## COEN 20 Homework #3

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```
21. (a) int bit = 16;
    int temp = x;
    while(bit < 24){
        temp ^ = (1 << bit);
        if(temp > x) break;
        bit++;
    }
    x = temp;
(b) ((short*)&x)[3] += 1;
```

## 22. A63F

	Characteristic	Bitwise Operators	Structure Bit Fields	Variant Acess	Unions
24.	Messy syntax?	YES	NO	NO	NO
	Ambiguous semantics?	NO	YES	YES	YES
	Bit-field assignment re-	NO	YES	YES	YES
	strictions?				
	More efficient code gener-	YES	YES	YES	NO
	ation?				

- 25. (a) short value = (packed >> 8);
  - (b) short value = packed.c[1];