CSC4200/5200 - COMPUTER NETWORKING

PROGRAMMING ASSIGNMENT 2

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Setting Bits - Python

```
 \begin{tabular}{ll} def get\_bit(num, i): \\ return (num \& (1 << i)) != 0 \\ \\ def clear\_bit(num, i): \\ \end{tabular}
```

def update_bit(num, i, bit): mask = \sim (1 << i) return (num & mask) | (bit << i)

 $mask = \sim (1 << i)$

return num & mask

Setting Bits - C++

```
Set:

number \mid = 1UL << n; //set the nth bit

Clear:

number \&= \sim (1UL << n);
```

Check: bit = (number >> n) & 1U;