## Lec8\_App Security

## Integer overflow

```
#include <stdio.h>
#include <limits.h>
int main(int argc, char* argv[]){
    int a;
    a = INT_MAX;
    printf("a=%d\n", a);
    a++;
    printf("New a=%d\n", a);
    return 0;
}
```

## Integer underflow

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```
unsigned int attacker_withdrawal= 4294967295U;
// Attempt the withdrawal
if(has_sufficient_balance(balance, attacker_withdrawal)) {
    puts("Withdrawal approved.");
} else{
    puts("Withdrawal denied.");
}
return 0;
}
```

## **Buffer overflow**

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