

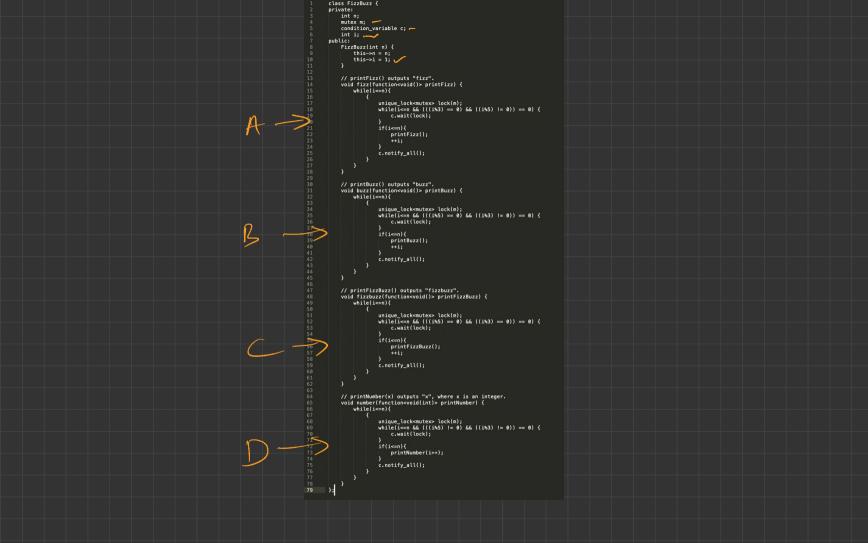
lec-23 1 Print order Thi -stool. first() 500 > Obj > [500] -> fool. second() 12 - fool formed ()

locks & Conditional variable D first > printfirst() -> T, execute.

D when first is printed >> Tz execute.

```
class Foo {
    std: mutex m;
    std::condition_variable cv;
                                decide turn
   int turn:
public:
    Foo() {
        turn = 0;
    void first(function<void()> printFirst) {
       // printFirst() outputs "first". Do not change or remove this line.
       printFirst();
        turn = 1;
        cv.notify_all();
    void second(function<void()> printSecond) {
        std::unique_lock<std::mutex> lock(m);
        while(turn != 1){
            cv.wait(lock);
        // printSecond() outputs "second". Do not change or remove this line.
       printSecond();
        turn = 2;
        cv.notify_all();
    void third(function<void()> printThird) {
        std::unique_lock<std::mutex> lock(m);
        while(turn != 2){
            cv.wait(lock);
        // printThird() outputs "third". Do not change or remove this line.
       printThird();
};
```

D-> FIZZ buzz problem



Diving philosopher's problem Video no. 20

