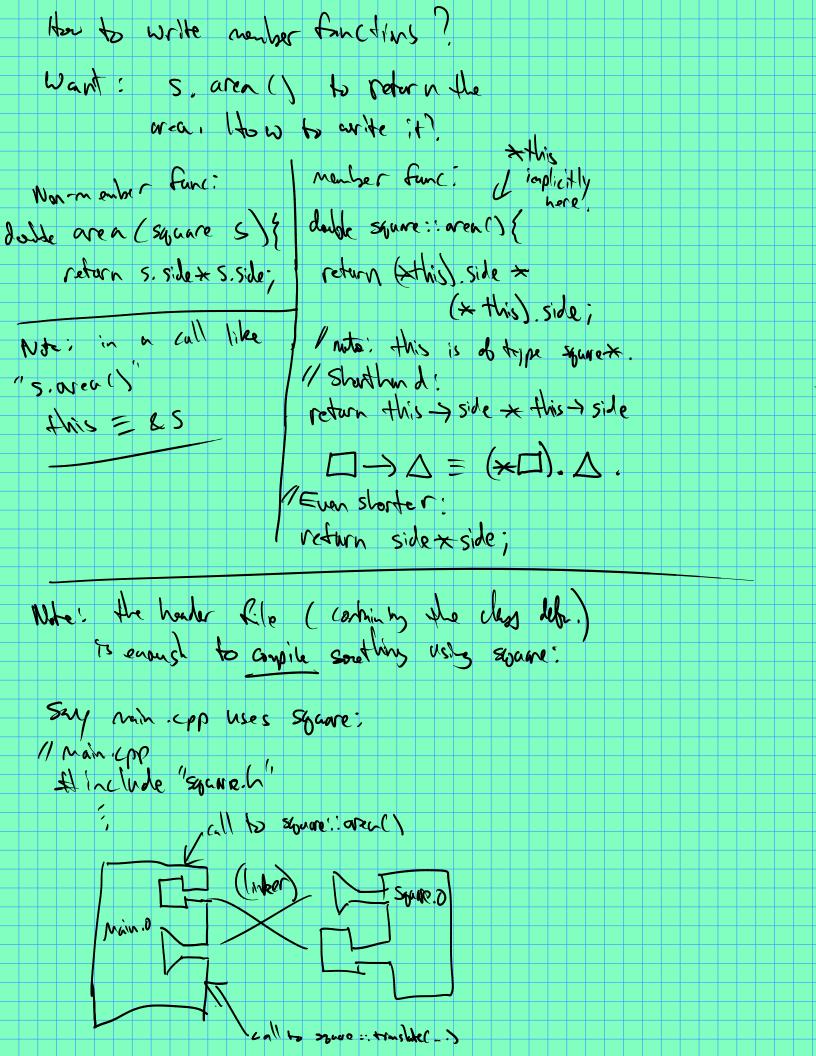
```
Busics of Classes.
 Way to della your own types
  Cers. Fer complex numbers.)
Example: a class to hold a square:
 class square {
     menher variables:

// what data is needed to

// represent a square?
      double side; // side langth
      double x; 11 x word of center double y; 11 y word of center
     1 (as sue soure, over votated...
     11 men ber fanctions
    double areal);
    void to an slate (double x, double y);
3;
mt main () {
   square s;
   S. X = 0;
   S.y = 0;
    5. side = 10;
```



```
Constructor s
       Voc can write special functions that will be called automatically upon a variables
       creation.
    Syntax:
       class square {
        public:
          square (); // 1
           square (doule ix, double iy, double iside); // (2)
   \,
\,
1/ ran cyp
       syave s; 11 const. 1 called
       Square t(0,0,10); // const. (2) called
  Special constractor sytnax:
     if you are just softing menter variables,
     square (donle ix, double iy, double iside):

×(ix), y(iy), Side (iside) { };
    square (doule ix, double iy, double iside) {

X=iX; Y=iY; side = iside; };
```