

- header file .h only class decl.
- source file .cc class implem.
- application file .cc contains main()

Complex.h

```
#ifndef Complex-h
#define Complex-h

class Complex {
    ;
    ;
};
#endif
```

Complex.cc

```
Complex::Complex()
{
}
```

name of the file MUST match name of class

gcc -c Complex.cc

Compile only

app.cc , lbl.cpp, - -

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```
int main() {
```

```
    const Complex c(1, 0);
```

```
    const Complex d(2, 1);
```

```
    Complex f = c + d;
```

```
}
```

gcc -o opp app.cc Complex.o

```
double x = 1.2;
```

```
string s = "something";
```

```
cout << "x = " << x << endl;
```

```
cout << x << endl;
```

```
operator<<(cout, x)
```

```
print(cout, x)
```

```
Datum d(1.0, 0.1)
```

```
cout << d << endl;
```

Complex c(1.2, 0.2);

Complex d = c;

you do not implement operator =

```
class Complex {
```

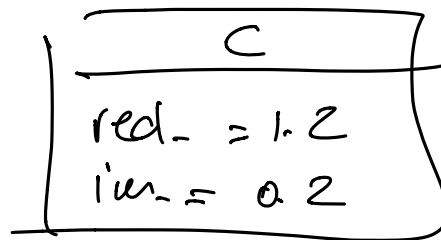
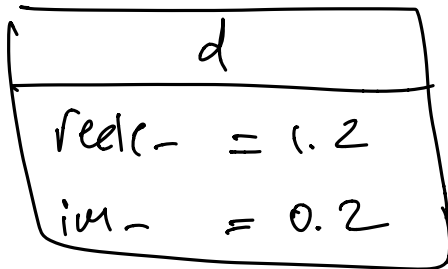
```
    private:
```

```
        double real_;
```

```
        double im_;
```

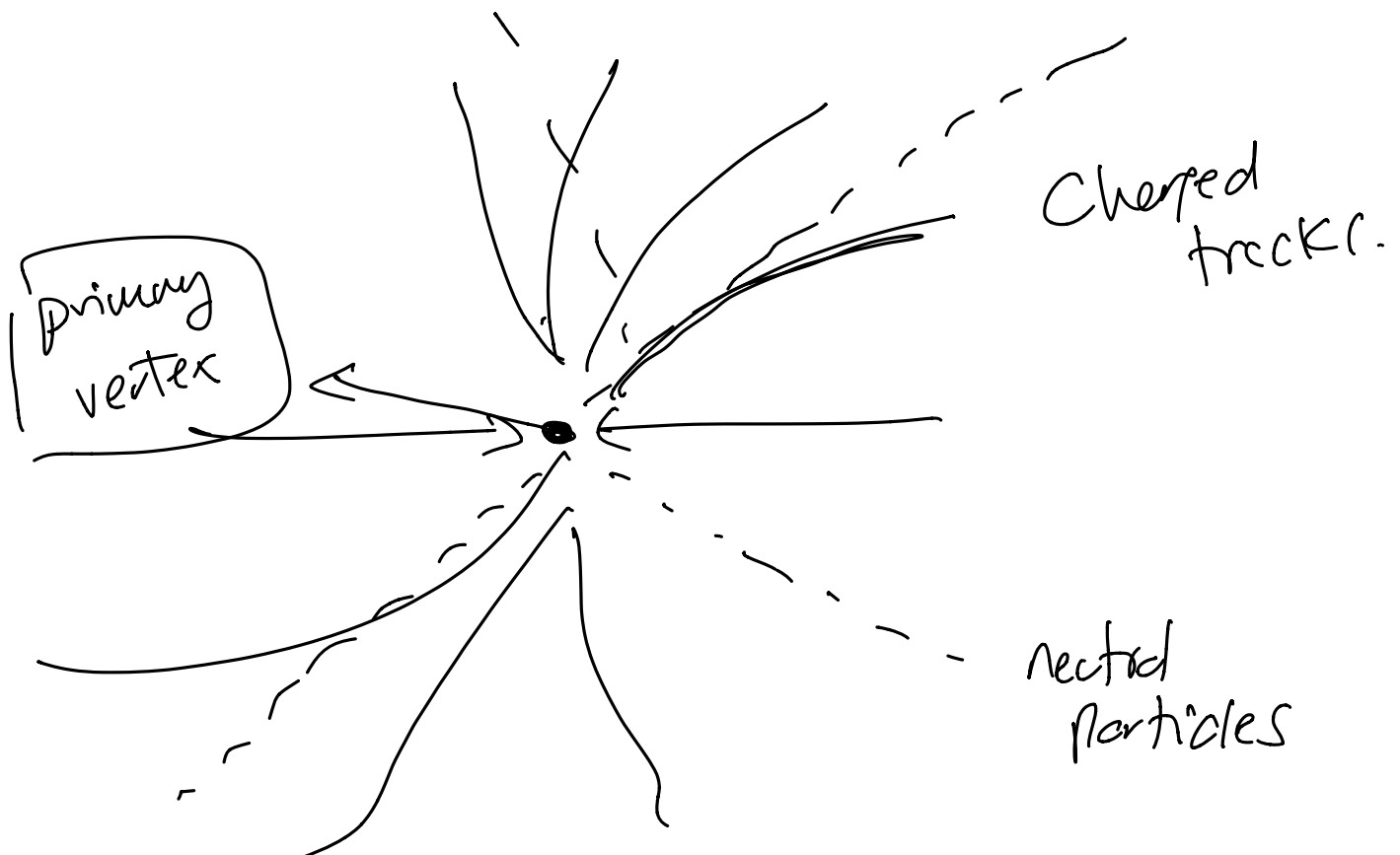
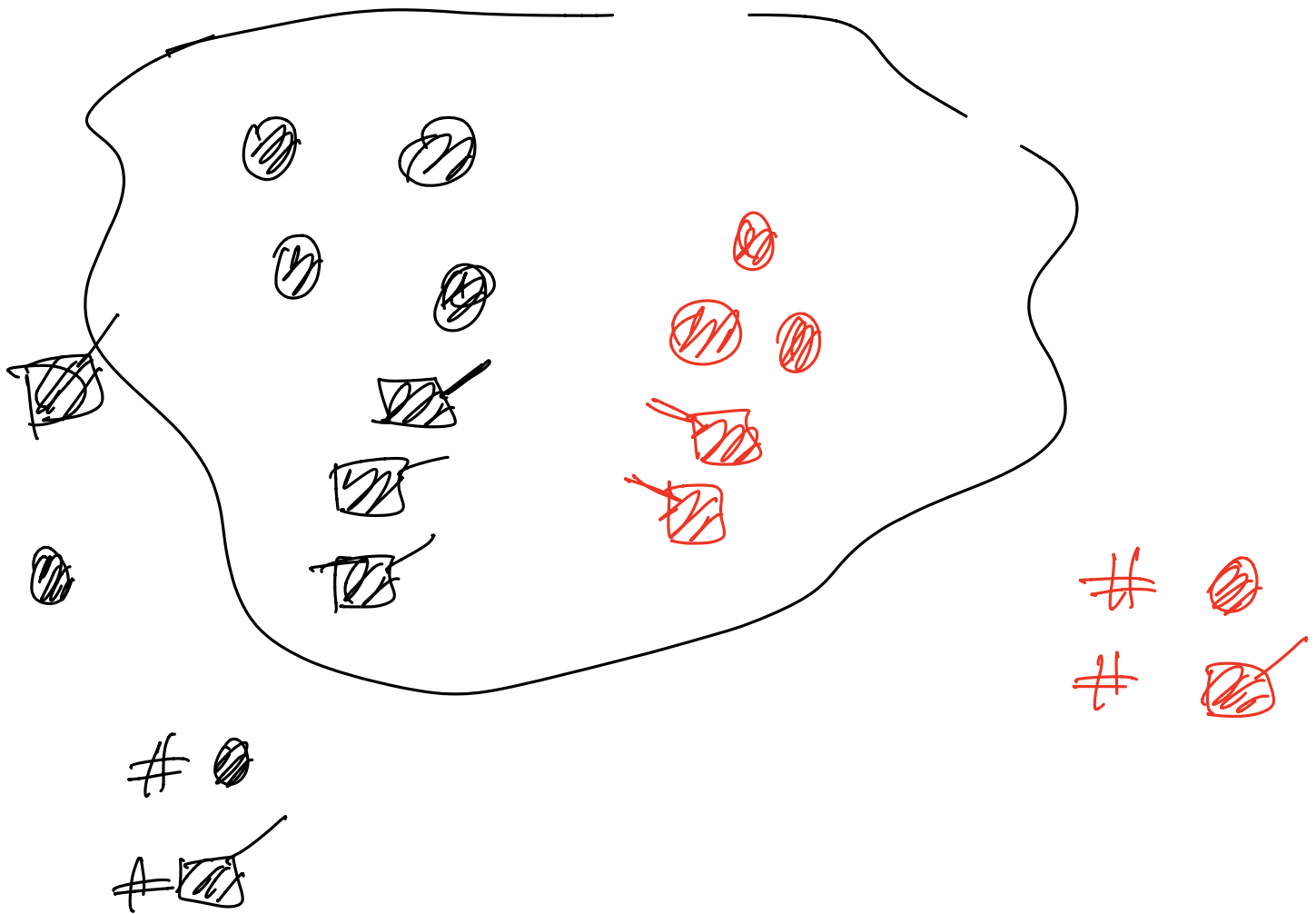
```
}
```

Complex d = c



automatically operator = assignment.

d += c free
you have to implement



john
"John"
Counter-

fra
"Francesca"
Counter-

pino
"Pino"
Counter-

Counter-
x 2 3 2 3

Sera
"Sera"

