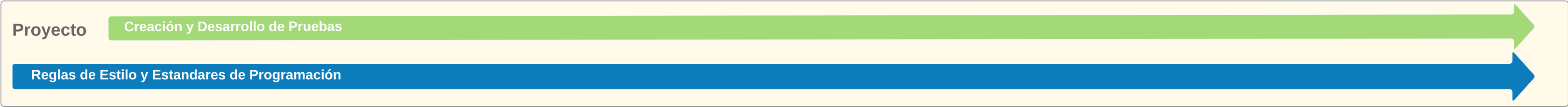


Inicio



Fin

De python a C++

```
1 def suma (a, b, c):
2     return a + b + c
3
4
5 a = int(input())
6 b = int(input())
7 c = float(input())
8
9 print(suma(a,b,c))
```

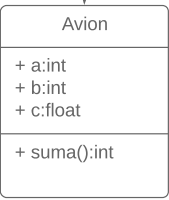
```
1 #include<iostream>
2
3 using namespace std;
4
5 int suma (int a, int b, float c){
6     return a + b + c;
7 }
8
9 int main(){
10
11     int a;
12     int b;
13     float c;
14
15     cin >> a >> b >> c;
16     cout << suma(a,b,c);
17
18     return 0;
19 }
20
21 }
```

Objetos
clases, atributos,
métodos,

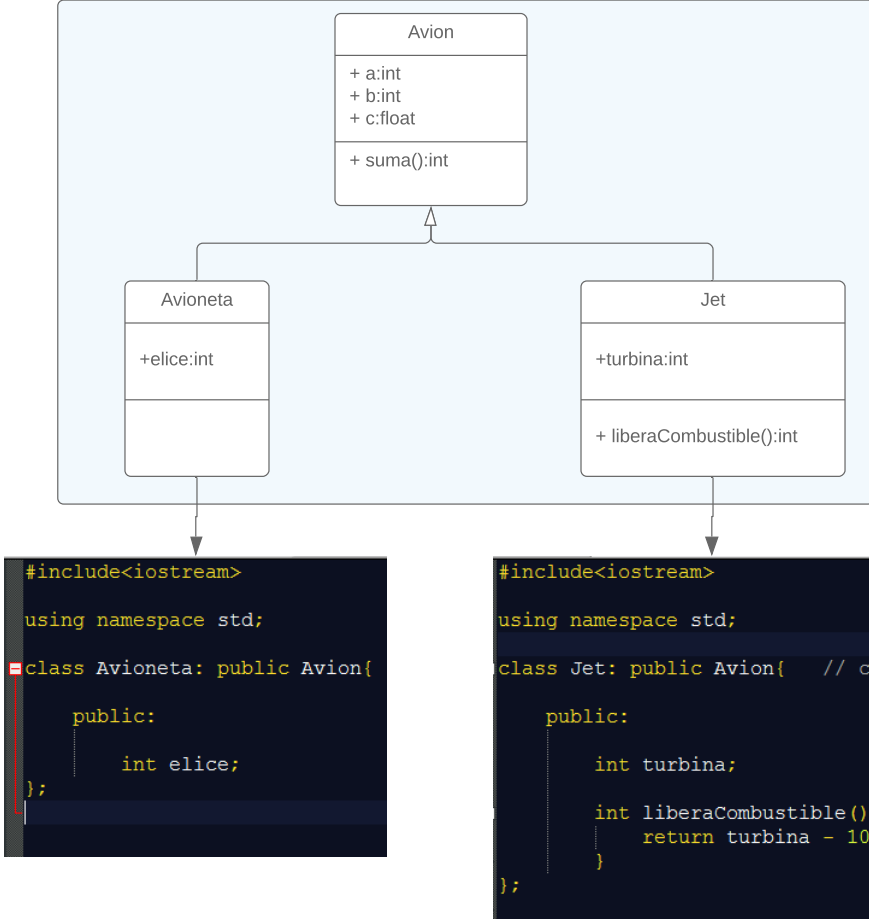
```
1 #include<iostream>
2
3 using namespace std;
4
5 int suma (int a, int b, float c){
6     return a + b + c;
7 }
8
9
10 int main(){
11
12     int a;
13     int b;
14     float c;
15
16     cin >> a >> b >> c;
17     cout << suma(a,b,c);
18
19     return 0;
20 }
21 }
```

```
1 #include<iostream>
2
3 using namespace std;
4
5 class Avion{ // clase
6
7     public:
8
9         int a; // atributos
10        int b;
11        float c;
12
13        // metodo
14        Avion(int val_a, int val_b, float val_c){
15            a = val_a;
16            b = val_b;
17            c = val_c;
18        }
19
20        int suma (){
21            return a + b + c;
22        }
23    };
24
25
26
27
28 int main(){
29
30     int x, y;
31     float z;
32     cin >> x >> y >> z;
33     Avion boing(x, y, z); // objeto
34     cout << boing.suma();
35
36     return 0;
37 }
38 }
```

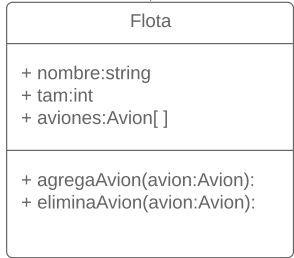
UML
Diagrama de Clase,
Paso de Mensajes



Herencia
listas / arreglos



Composición



```
1 #include<iostream>
2 #include "Avion.h"
3
4 using namespace std;
5
6 class Flota{
7
8     public:
9         string nombre;
10        int actual;
11        Avion *aviones[100]; // arreglo de clase Avion
12
13
14        Flota(string val_nombre){
15            nombre = val_nombre;
16            actual = 0;
17        }
18
19
20        void agregaAvion(Avion avion){
21            aviones[actual] = &avion;
22            actual++;
23        }
24
25        void eliminaAvion(){
26            aviones[actual] = NULL;
27            actual--;
28        }
29
30    };
```

Entrega de proyecto
Examen Final