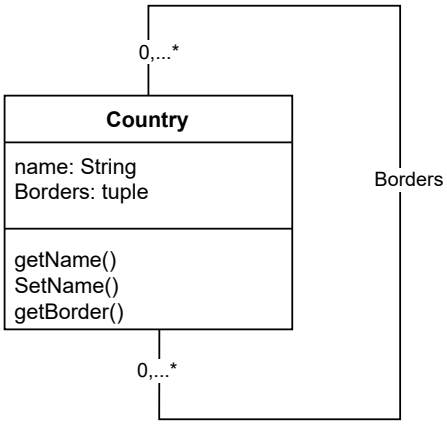
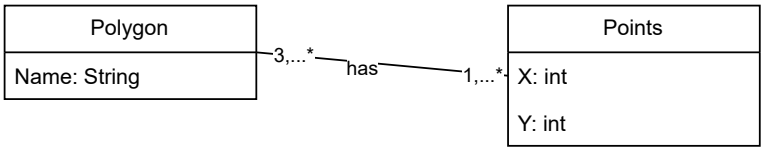
Question 1


0,...*
Country
name: String
Borders: tuple
getName()
SetName()
getBorder()
0,...*
Borders

Question 2



Reasoning:

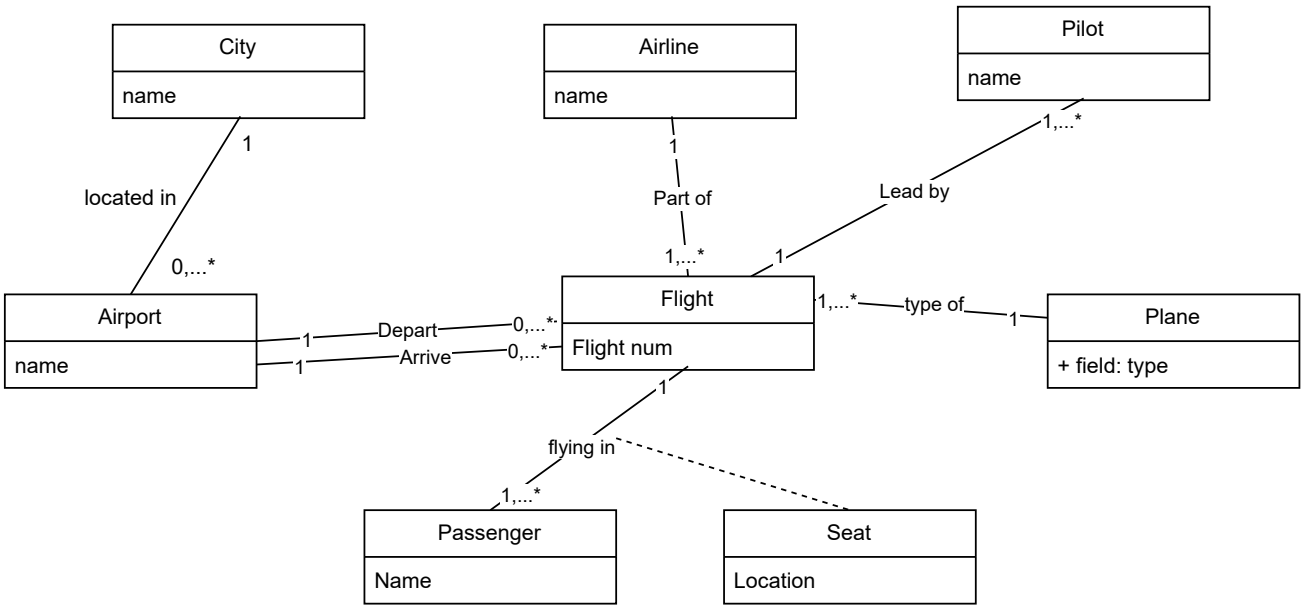
Multiplicity:
- For the polygon side:
  A polygon must have at least three point instances to be valid, so the multiplicity is 3,...*.
- For the point side:
  A point can be part of zero or more polygon instances, so the multiplicity is 0...

Minimum points of polygon:
The smallest number of points required to construct a polygon is 3. This is because the simplest polygon is a triangle, which has three sides and three vertices (points).

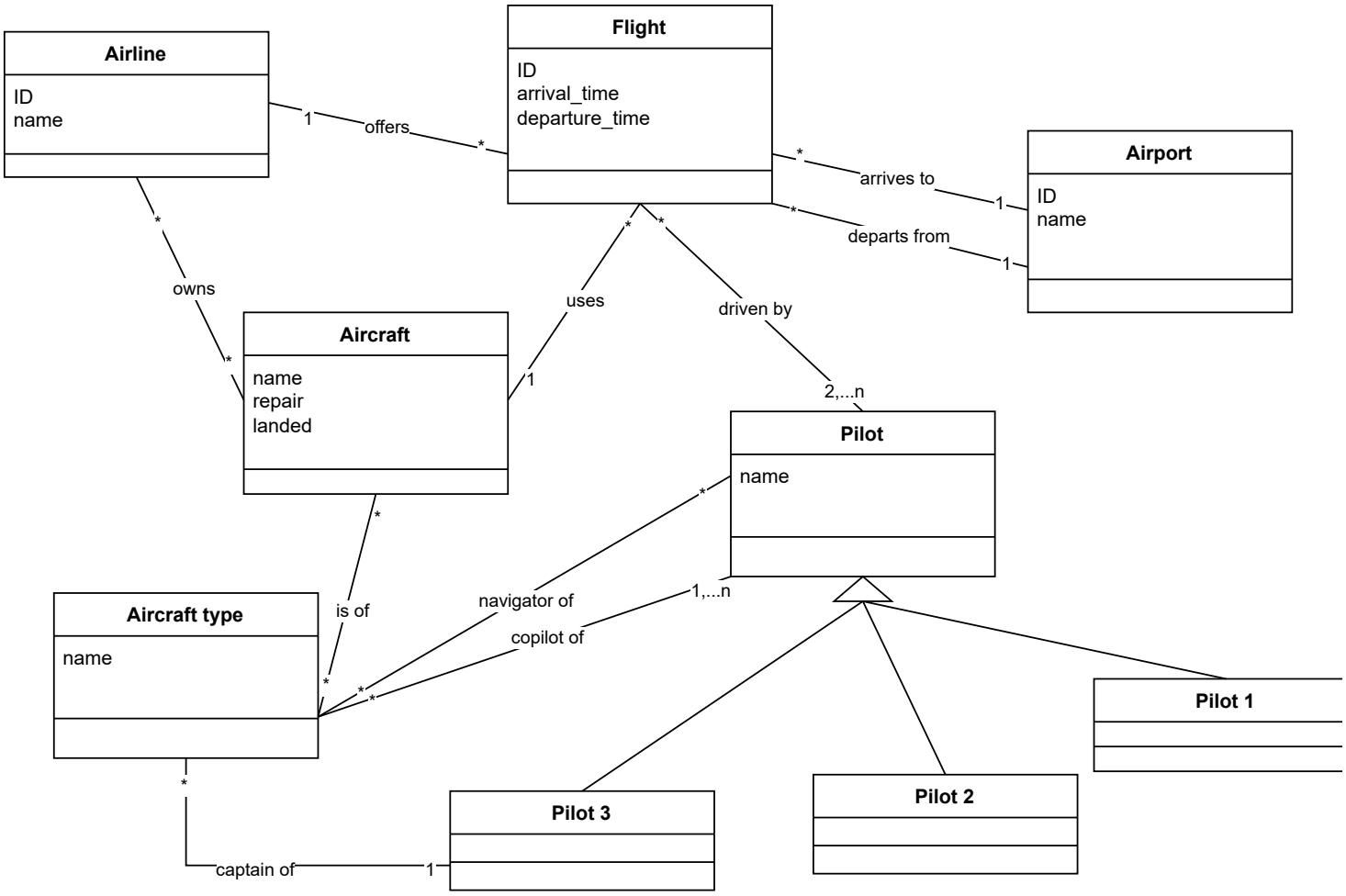
Point sharing:
Points can be shared between polygons, allowing for more complex and connected shapes. Not sharing points leads to independent polygons.

Ordered points:
The order of points is essential for defining the shape and properties of the polygon accurately.

Question 3


City
name
Airline
name
Pilot
name
1
located in
0,...*
1
Part of
1,...*
1,...*
Lead by
1
Airport
name
1
Depart
0,...*
1
Arrive
0,...*
Flight
Flight num
1,...*
type of
1
Plane
+ field: type
1
flying in
1,...*
Passenger
Name
Seat
Location

Question 4


Airline
ID
name
Flight
ID
arrival_time
departure_time
Airport
ID
name
Aircraft
name
repair
landed
Pilot
name
Aircraft type
name
Pilot 1
Pilot 2
Pilot 3
offers
arrives to
departs from
owns
uses
driven by
is of
navigator of
copilot of
captain of
1
*
2,...n
1,...n