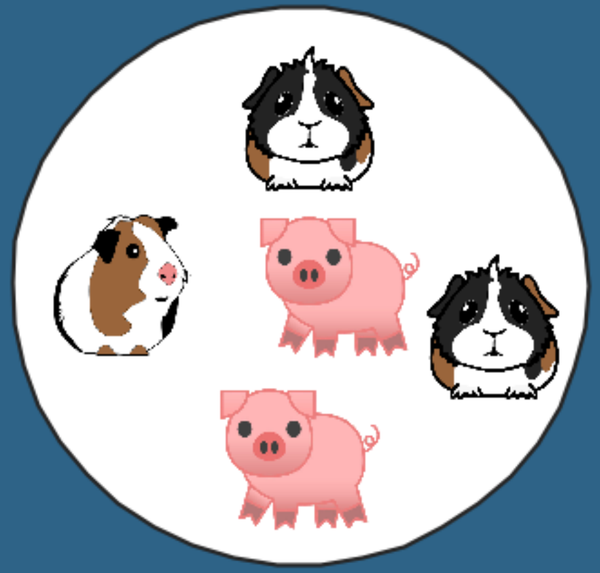
Task #1: Find Guinea Pigs

```
val pets = listOf<Animal>(
    Pig("George", 6),
    GuineaPig("Pink", 3),
    Pig("Harry", 6),
    GuineaPig("Ted", 2),
    GuineaPig("Didi", 2)
)
```



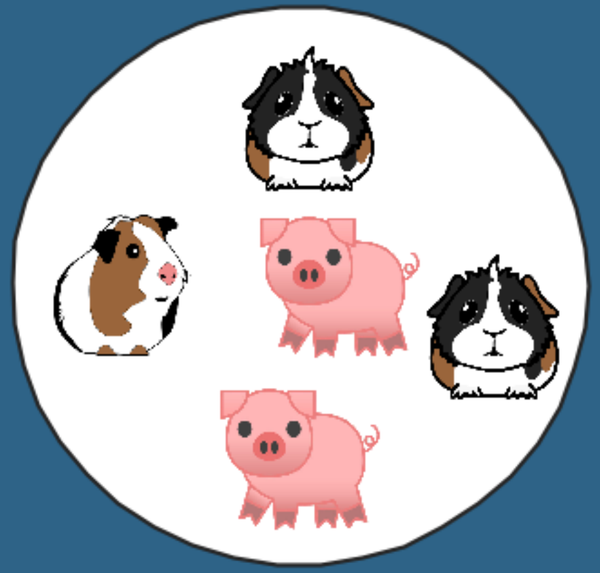
Using filter -->

```
val guineaPigs = pets.filter { it is GuineaPig}
```

by moro

Task #2:
Find Guinea Pigs and other Pets

```
val pets = listOf<Animal>(
    Pig("George", 6),
    GuineaPig("Pink", 3),
    Pig("Harry", 6),
    GuineaPig("Ted", 2),
    GuineaPig("Didi", 2)
)
```



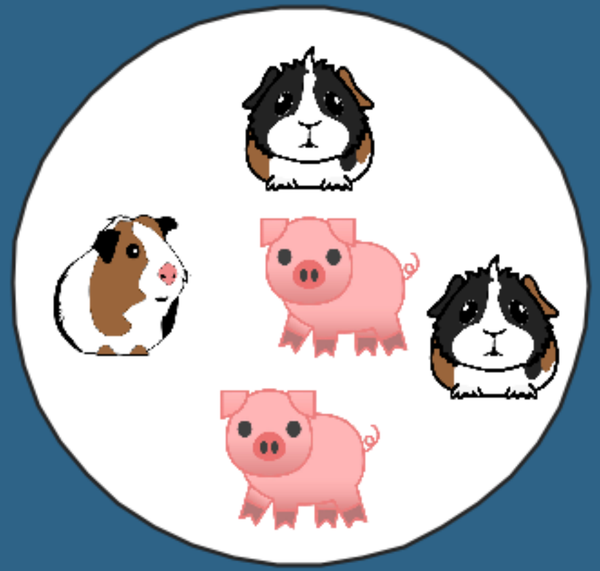
Using partition -->

```
val (guineaPigs, otherAnimals) = pets.partition { it is GuineaPig}
```

by moro

Task #3:
Check the Guinea Pigs' age average

```
val pets = listOf<Animal>(
    Pig("George", 6),
    GuineaPig("Pink", 3),
    Pig("Harry", 6),
    GuineaPig("Ted", 2),
    GuineaPig("Didi", 2)
)
```



- Mapping the age property

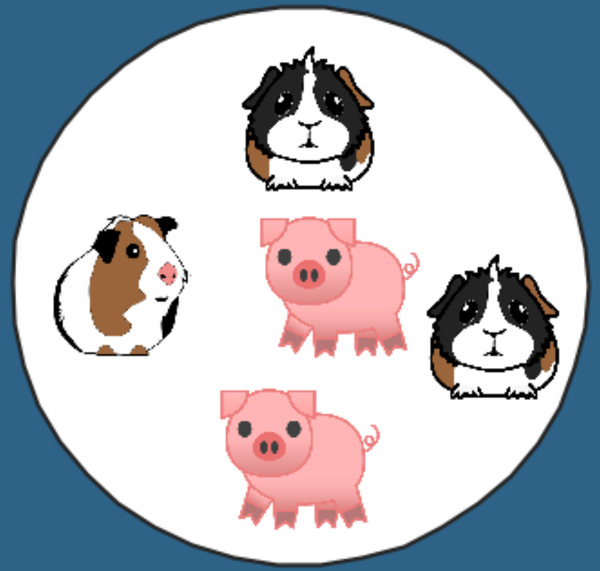
- Making an average operation

```
val averageAge = guineaPigs.map { it.age }.average()
```

by moro

Task #4:
Print all pets' names

```
val pets = listOf<Animal>(
    Pig("George", 6),
    GuineaPig("Pink", 3),
    Pig("Harry", 6),
    GuineaPig("Ted", 2),
    GuineaPig("Didi", 2)
)
```



- Mapping the name property

- Making a reduce operation

```
val allNames = pets.map { it.name }
    .reduce { acc, s -> "$acc, $s" }
```

by moro