FILTER

```javascript
var animals = [
  { name: 'Fluffykins', species: 'rabbit' },
  { name: 'Caro',       species: 'dog' },
  { name: 'Hamilton',   species: 'dog' },
  { name: 'Harold',     species: 'fish' }
  { name: 'Ursula',     species: 'cat' },
  { name: 'Jimmy',      species: 'fish' }
]

var isDog = function(animal) {
  return animal.species === 'dogs'
}

var dogs = animals.filter(isDog)
var otherAnimals = animals.reject(isDog)

/*
var dogs = []
for (var i = 0; i < animals.length; i++) {
  if (animals[i].species === 'dog')
    dogs.push(animals[i])
```

Think and reason and debug these problem

MAP

```javascript
var animals = [
  { name: 'Fluffykins', species: 'rabbit' },
  { name: 'Caro',       species: 'dog' },
  { name: 'Hamilton',   species: 'dog' },
  { name: 'Harold',     species: 'fish' },
  { name: 'Ursula',     species: 'cat' },
  { name: 'Jimmy',      species: 'fish' }
]

var names = animals.map(function(animal) { return animal.name })
var names = animals.map((animal) => animal.name )

var names = []; for (var i = 0; i < animals.length; i++) { names.push(animals[i].name) }

console.log(names)
```

REDUCE

```javascript
var orders = [
  { amount: 250 },
  { amount: 400 },
  { amount: 100 },
  { amount: 325 }
]

var totalAmount = orders.reduce((sum, order) => sum + order.amount, 0)

var totalAmount = 0
for (var i = 0; i < orders.length; i++) {
  totalAmount += orders[i].amount
}

console.log(totalAmount)
```