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Problem Statement
Task 1
Given a list of strings - List[String] ("alpha", "gamma", "omega", "zeta", "beta")
- Find count of all strings with length 4.
Scala REPL
scala> var tuple:List[(String)] = List ("alpha", "gamma", "omega", "zeta", "beta")
tuple: List[String] = List(alpha, gamma, omega, zeta, beta)
scala> var tuple:List[(String)] = List("alpha", "gamma", "omega", "zeta", "beta")
tuple: List[String] = List(alpha, gamma, omega, zeta, beta)
scala> tuple.count(s=> s.length == 4)
res0: Int = 2
Output
                          scala> tuple.count(s=> s.length == 4)
                          res0: Int = 2
- Convert the list of string to a list of integers, where each string is mapped to its
corresponding length.
Scala REPL
scala> tuple.map(s=> s.length)
res1: List[Int] = List(5, 5, 5, 4, 4)
```

scala> tuple.map(s=> s.length)
resl: List[Int] = List(5, 5, 5, 4, 4)

Output

```
- Find count of all strings which contain alphabet 'm'.
Scala REPL
scala> tuple.count(s=> s.contains("m"))
res2: Int = 2
Output
                      scala> tuple.count(s=> s.contains("m"))
                      res2: Int = 2
- Find the count of all strings which start with the alphabet 'a'.
Scala REPL
scala> tuple.count(s=> s.charAt(0) == 'a')
res3: Int = 1
Output
```

scala> tuple.count(s=> s.charAt(0) == 'a')
res3: Int = 1

Task 2

Create a list of tuples, where the 1st element of the tuple is an int and the second element is a string.

Example - ((1, 'alpha'), (2, 'beta'), (3, 'gamma'), (4, 'zeta'), (5, 'omega'))

- For the above list, print the numbers where the corresponding string length is 4. SCALA REPL

```
Scala>var tuple : List[(Int,String)] =
List((1,"alpha"),(2,"beta"),(3,"gamma"),(4,"zeta"),(5,"omega"))
```

Scala>tuple: List[(Int, String)] = List((1,alpha), (2,beta), (3,gamma), (4,zeta), (5,omega))

Now print the numbers where the corresponding string length is 4,

```
Scala > tuple.filter(\_._2.length == 4).foreach (x=> println(x._1))
```

Regired Output

```
scala> tuple.filter(_._2.length == 4).foreach (x=> println(x._1))
2
4
```

- find the average of all numbers, where the corresponding string contains alphabet 'm'

or alphabet 'z'.

SCALA REPL

```
scala> var tuple1 = tuple.filter(a=>(a._2.count(_=='m')!=0||a._2.count(_=='z')!=0))

tuple1: List[(Int, String)] = List((3,gamma), (4,zeta), (5,omega))

scala> tuple1.map(_._1).sum/tuple1.size

res5: Int = 4

scala> var tuple1 = tuple.filter(a=>(a._2.count(_=='m')!=0||a._2.count(_=='z')!=0))
tuple1: List[(Int, String)] = List((3,gamma), (4,zeta), (5,omega))
```

Required Output

```
scala> tuple1.map(_._1).sum/tuple1.size
res5: Int = 4
```