```
import scala.io.StdIn.readLine

object Main {
    def main(args: Array[String]): Unit = {
        val n = readLine().toInt
        val names = (1 to n).map(_ => readLine())
        val grouped = names.groupBy(_.length).toSeq.sortBy(_._1)
        for ((len, group) <- grouped) {
            println(s"$len : ${group.mkString(", ")}")
        }
    }
}</pre>
```

```
Compiling project (Scala 3.6.4, JVM (21))

Compiled project (Scala 3.6.4, JVM (21))

Ari

Budi

Santi

Rama

Ani

3 : Ari, Ani

4 : Budi, Rama

5 : Santi
```

}

```
PS C:\Users\Hp\Documents\workspace\CS60\Semester4\Pempro\pempro10> scala "Open fil \Documents\workspace\CS60\Semester4\Pempro\pempro10\2.scala"

Dina Rahmawati
Rudi Gunawan
Tika Anggraini
Anton Prasetyo
Lia Ramadhani
Tika Anggraini
Rudi Gunawan
Anton Prasetyo
Dina Rahmawati
Lia Ramadhani
```

```
import scala.io.StdIn.readLine

object Main {
    def main(args: Array[String]): Unit = {
        val n = readLine().toInt
        val words = (1 to n).map(_ => readLine())
        val grouped = words.groupBy(_.last).toSeq.sortBy(-_._2.length)
        for ((lastChar, group) <- grouped) {
            println(s"$lastChar : ${group.length}")
        }
    }
}</pre>
```

```
Compiling project (Scala 3.6.4, JVM (21))

Compiled project (Scala 3.6.4, JVM (21))

makan

jalan

pemrograman

main

minum

makan

n: 5

m: 1
```

```
import scala.io.StdIn.readLine

object Main {
    def main(args: Array[String]): Unit = {
        val n = readLine().split(" ").map(_.toLowerCase)
        val a = readLine().split(" ").map(_.toLowerCase)
        val common = n.toSet.intersect(a.toSet)
        println(common.toSeq.sorted.mkString("\n"))
    }
}
```

```
Compiling project (Scala 3.6.4, JVM (21))
Compiled project (Scala 3.6.4, JVM (21))
Saya sedang belajar pemrograman di rumah
Belajar di kampus sangat menyenangkan
belajar
di
```

```
import scala.io.StdIn.readLine

object Main {
    def main(args: Array[String]): Unit = {
        val n = readLine().split(" ").map(_.toLowerCase)
        val a = readLine().split(" ").map(_.toLowerCase)
        val common = n.toSet.intersect(a.toSet)
        println(common.toSeq.sorted.mkString("\n"))
    }
}
```

```
Compiling project (Scala 3.6.4, JVM (21))
Compiled project (Scala 3.6.4, JVM (21))

Bakar: akRab
Kaos: soAk
Kusam: mAsaK
Anagram
Anagram
Bukan Anagram
```

```
import scala.io.StdIn.readLine

object Main {
    def main(args: Array[String]): Unit = {
        val text = readLine().replace("(", "").replace(")", "").split("
").flatMap(_.toLowerCase.split("-"))
        val count = text.groupBy(identity).view.mapValues(_.length).toMap
        println(s"Jumlah total kata: ${text.length}")
        val meanLength = text.map(_.length).sum.toDouble / text.length
        println(f"Mean length: $meanLength%.2f")
        val longest = count.keys.maxBy(_.length)
        println(s"Kata paling panjang: $longest")
        val mostFrequent = count.maxBy(_._2)
        println(s"Kata paling sering: ${mostFrequent._1}")
    }
}
```

```
Kriptografi kunci-publik disebut juga kriptografi kunci asimetrik (asymmetric-key cry ptography) karena kunci enkripsi tidak sama dengan kunci dekripsi.

Jumlah total kata: 19

Mean length: 6.89

Mean frequency: 1.27

Kata paling panjang: cryptography

Kata paling sering: kunci
```

```
import scala.io.StdIn.readLine

object Main {
    def main(args: Array[String]): Unit = {
        val n = readLine().toInt
        val names = scala.collection.mutable.Set[String]()
        val favorit = scala.collection.mutable.Set[String]()

        for (_ <- 1 to n) {
            val line = readLine()
            val Array(a, _, b) = line.split(" ").map(_.trim)
            names += a
            names += b
            favorit += b
        }

        val notfavorit = names.diff(favorit).toList.sorted
        notfavorit.foreach(println)
    }
}</pre>
```

```
PS C:\Users\Hp\Documents\workspace\CS60\Semester4\Pempro\pempro10> scala "c:\Users\Documents\workspace\CS60\Semester4\Pempro\pempro10\7.scala"

Compiling project (Scala 3.6.4, JVM (21))

Compiled project (Scala 3.6.4, JVM (21))

Sopo > Jarwo
Denis > Adit
Adit > Jarwo
Adel > Sopo
Jarwo > Sopo
Adel
Penis
```