```
Ejercicio 1
public class Maskify {
  public static String maskify(String str) {
   String maskify = "";
       if (srt != null && srt.length() > 0) {
              if (srt.length() < 4) {
                     return srt;
              } else {
                     String visible = srt.substring(srt.length() - 4, srt.length());
                     String aux = "":
                     for (int i = 0; i < srt.length() - 4; i++) {
                     aux += '#';
              }
              maskify = aux + visible;
       }
 }
return maskify;
}
Salida:
Maskify. Maskify("4556364607935616"); // should return "#########5616"
Maskify.Maskify("64607935616");
                                            // should return "#####5616"
Maskify.Maskify("1");
Maskify.Maskify("");
                                            // should return "1"
                                            // should return ""
Maskify.Maskify("Skippy");
                                            // should return "##ippy"
Maskify. Maskify("Nanananananananananananananananana Batman!");
// should return "#############################man!"
Ejercicio 2:
class Kata {
 public static String getMiddle(String word) {
  String getMiddle = "";
       if(word != null && word.length()>0){
              if(word.length() < 3){
                     return word:
              }else{
                     if(word.length()\%2==0){
                            getMiddle = word.substring((word.length()/2)-1, (word.length()/2)+1);
                     }else{
                            getMiddle = word.substring((word.length()-1)/2, (word.length()+1)/2);
                     }
              }
```

return getMiddle;

}

```
Salida:
Kata.getMiddle("test") should return "es"
Kata.getMiddle("testing") should return "t"
Kata.getMiddle("middle") should return "dd"
Kata.getMiddle("A") should return "A"
Ejercicio 3:
public class Fighter {
  public String name;
  public int health, damagePerAttack;
  public Fighter(String name, int health, int damagePerAttack) {
     this.name = name;
     this.health = health;
    this.damagePerAttack = damagePerAttack;
}
public class Kata {
 public static String declareWinner(Fighter fighter1, Fighter fighter2, String firstAttacker) {
             String winner = "none";
             if(fighter1 != null && fighter2 != null && firstAttacker != null){
                     if(firstAttacker.equals(fighter1.name) || firstAttacker.equals(fighter2.name)){
                            while (fighter1.health > 0 \&\& fighter2.health > 0) {
                                  if(firstAttacker.equals(fighter1.name)){
                                         fighter2.health-=fighter1.damagePerAttack;
                                         if(fighter2.health<=0){
                                                return fighter1.name;
                                         fighter1.health-=fighter2.damagePerAttack;
                                         if(fighter1.health<=0){
                                                return fighter2.name;
                                         }
                                   }else{
                                         fighter1.health-=fighter2.damagePerAttack;
                                         if(fighter1.health<=0){
                                                return fighter2.name;
                                         fighter2.health-=fighter1.damagePerAttack;
                                         if(fighter2.health<=0){
                                                return fighter1.name;
                                         }
                                  }
                           }
                     }
              }
             return winner;
}
Salida:
```

```
Pruebas:
```

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assertEquals("Lew", Kata.declareWinner(new Fighter("Lew", 10, 2),new Fighter("Harry", 5, 4), "Lew")); assertEquals("Harry", Kata.declareWinner(new Fighter("Lew", 10, 2),new Fighter("Harry", 5, 4), "Harry")); assertEquals("Harald", Kata.declareWinner(new Fighter("Harald", 20, 5), new Fighter("Harry", 5, 4), "Harry")); assertEquals("Harald", Kata.declareWinner(new Fighter("Harald", 20, 5), new Fighter("Harry", 5, 4), "Harald")); assertEquals("Harald", Kata.declareWinner(new Fighter("Jerry", 30, 3), new Fighter("Harald", 20, 5), "Jerry")); assertEquals("Harald", Kata.declareWinner(new Fighter("Jerry", 30, 3), new Fighter("Harald", 20, 5), "Harald"));
```

```
Ejercicio 4:
public class Kata
 public static void dontGiveMeFive(int start, int end)
    if(start>end){
       int aux = start;
       start = end;
       end = aux;
    for(int i = start; i \le end; i++){
       if(i!=5){
       System.out.print(i+", ");
     System.out.println(" -> Result: "+(end-start));
 }
Entrada/Salida:
1,9 -> 1,2,3,4,6,7,8,9 -> Result 8
4,17 -> 4,6,7,8,9,10,11,12,13,14,16,17 -> Result 12
Ejercicio 5:
public class Codewars {
 public static String oddOrEven (int[] array) {
     String oddOrEven = "error";
    if(array != null && array.length > 0){
       int sum = 0;
       for(int num:array){
         sum+=num;
       if(sum\%2==0){
         oddOrEven = "even";
       }else{
         oddOrEven = "odd";
    return oddOrEven;
 }
```

```
Entreda/Salida: cómo es la suma de las entradas...
                            == "even"
odd_or_even([0])
odd_or_even([0, 1, 4]) == "odd"
odd_or_even([0, -1, -5]) == "even"
Ejercicio 6:
public class Kata {
 public static String highAndLow(String numbers) {
  String highAndLow = "error";
       if(numbers != null && numbers.length()!=5){
         String[] parts = numbers.split(" ");
         int[] num = new int[5];
         for(int i = 0; i < num.length; i++){
            num[i] = Integer.parseInt(parts[i]);
         int high = num[0];
         int low = num[0];
         for(int aux:num){
            if(aux>high)high=aux;
            if(aux<low)low=aux;
       highAndLow = high+" "+low;
    return highAndLow;
 }
}
Salida:
highAndLow("1 2 3 4 5") // return "5 1"
highAndLow("1 2 -3 4 5") // return "5 -3"
highAndLow("1 9 3 4 -5") // return "9 -5"
Ejercicio 7:
public class Solution {
 public static boolean isAscOrder(int[] arr) {
    boolean isAscOrder = false;
    if(arr != null && arr.length > 1){
       for(int i = 0; i < arr.length -1; i++){
         if(arr[i]+1 == arr[i+1]){
            isAscOrder = true;
         }else isAscOrder = false;
    return is AscOrder;
 }
}
```

Salida:

```
isAscOrder(new int[]{1,2,4,7,19}) == true
isAscOrder(new int[]{1,2,3,4,5}) == true
isAscOrder(new int[]{1,6,10,18,2,4,20}) == false
isAscOrder(new int[]{9,8,7,6,5,4,3,2,1}) == false // numbers are in DESCENDING
order
Ejercicio 8:
public class WhichAreIn {
       public static String[] inArray(String[] array1, String[] array2) {
                    String[] inArray = {""};
     int nCoincidencias = 0;
     if(array1 != null && array2 != null && array1.length > 0 && array2.length > 0){
       for(int i = 0; i < array1.length; i++){
          for(int j = 0; j < array2.length; j++){
           if(array2[j].contains(array1[i])){
              nCoincidencias++;
              j=array2.length;
           }
          }
       if(nCoincidencias != 0) inArray = new String[nCoincidencias];
       for(int i = 0, x = 0; i < array1.length; i++){
         for(int j = 0; j < array2.length; j++){
           if(array2[j].contains(array1[i])){
              inArray[x] = array1[i];
              x++;
              j=array2.length;
           }
          }
       }
     return in Array;
}
Entrada/Salida:
#Example 1: a1 = ["arp", "live", "strong"]
a2 = ["lively",
                       "alive", "harp", "sharp",
                                                             "armstrong"]
returns ["arp", "live", "strong"]
#Example 2: a1 = ["tarp", "mice", "bull"]
a2 = ["lively", "alive", "harp", "sharp", "armstrong"]
returns []
```

```
Ejercicio 9:
public class EnoughIsEnough {
       public static int[] deleteNth(int[] elements, int maxOccurrences) {
       //Está feisimo y sin comentar, me vas a matar, pero ahora mismo no me da la cabeza ni para
hablar bien :'(
                    int[] deleteNth = null;
     int newTam = 0;
     int j = 0;
     int aux = -9999999999;
     if (elements != null && elements.length > 0 && maxOccurrences > 0) {
       for (int i = 0; i < \text{elements.length}; i++) {
         for (int x = 0; x < elements.length; x++) {
            if (elements[i] == elements[x]) {
              j++;
            }
          }
          if(j <= maxOccurrences){</pre>
            newTam++;
          }else if(elements[i] != aux){
            newTam+=maxOccurrences;
            aux = elements[i];
          }
       int contador = 0;
       deleteNth = new int[newTam];
       for (int i = 0; i < elements.length; <math>i++) {
         j = 0;
          for (int x = 0; x < elements.length; x++) {
            if (elements[i] == elements[x]) {
               j++;
          if(j <= maxOccurrences){</pre>
            deleteNth[contador]=elements[i];
            contador++;
          }else if(elements[i] != aux){
            for(int q = 0; q < maxOccurrences ; q++,contador++){</pre>
               deleteNth[contador] = elements[i];
            aux = elements[i];
          }
       }
     return deleteNth;
}
```

```
Entrada/Salida:
EnoughIsEnough.deleteNth(new int[] {20,37,20,21}, 1) // return [20,37,21]
EnoughIsEnough.deleteNth(new int[] {1,1,3,3,7,2,2,2,2}, 3) // return [1, 1, 3, 3, 7, 2, 2, 2]

Ejercicio 10:
public class DRoot {
  public static int digital_root(int n) {
    int cifra = 0;
    int suma = 0;
    boolean entra = true;

  while (entra) {
      while (n!= 0) {
         cifra = n % 10;
         suma = suma + cifra;
         n = n / 10;
      }
}
```

Entrada/Salida:

} } if (suma > 9) {
 n = suma;
 suma = 0;
 cifra = 0;

entra = false;

} else

return suma;

```
16 --> 1 + 6 = 7

942 --> 9 + 4 + 2 = 15 --> 1 + 5 = 6

132189 --> 1 + 3 + 2 + 1 + 8 + 9 = 24 --> 2 + 4 = 6

493193 --> 4 + 9 + 3 + 1 + 9 + 3 = 29 --> 2 + 9 = 11 --> 1 + 1 = 2
```