



### Desafios Code Wars

Enviar la imagen de los tres desafios desarrollados en el laboratorio

con el nombre del estudiante

Enlace de GitHub: <https://github.com/JuanApazaG/Ing-de-software0.2.git>

#### Ejercicio 1 En CodeWars

The screenshot shows the CodeWars interface for the exercise "Basic subclasses - Adam and Eve". The left panel displays the test results, indicating that all tests passed. The right panel shows the solution code in Java, which defines a base class "Human" and two subclasses "Man" and "Woman". The "Solution" tab is active, showing the following code:

```
1 * /*
2  * Lab 008: Ingenieria de Software
3  * Ejercicios de CodeWars
4  * @autor Juan Agustin Apaza Guzman
5  * @version 0.1
6  * @date 19/04/2024
7  */
8
9 * public class God {
10 *     public static Human[] create(){
11 *         Human adam = new Man("Adam");
12 *         Human eve = new Woman("Eve");
13 *         return new Human[] {adam, eve};
14 *     }
15 * }
```

#### Ejercicio 2 en CodeWars

The screenshot shows the CodeWars interface for the exercise "Find the missing letter". The left panel displays the test results, indicating that all tests passed. The right panel shows the solution code in Java, which defines a class "Kata" with a static method "findMissingLetter". The "Solution" tab is active, showing the following code:

```
1 * /*
2  * Lab 008: Ingenieria de Software
3  * Ejercicios de CodeWars
4  * @autor Juan Agustin Apaza Guzman
5  * @version 0.1
6  * @date 19/04/2024
7  */
8
9 * public class Kata {
10 *     public static char findMissingLetter(char[] array)
11 *     {
12 *         char missingLetter = ' ';
13 *         for (int i = 0; i < array.length - 1; i++) {
14 *             if (array[i + 1] - array[i] != 1) {
```

#### Ejercicio 3 en CodeWars no pude solucionarlo

The screenshot shows the CodeWars interface for the exercise "Is a number a power of two?". The left panel displays the test results, indicating that the test failed. The right panel shows the solution code in JavaScript, which defines a function "isPowerOfTwo". The "Solution" tab is active, showing the following code:

```
17
18 const sortedArr = str.toLowerCase() === "max" ?
19     [...arr].sort((a, b) => b - a) :
20     [...arr].sort((a, b) => a - b);
21
22 * if (k > sortedArr.length) {
23 *     return "No way";
24 * }
25
26 * return str.toLowerCase() === "max" ?
27 *     sortedArr[sortedArr.length - k] :
28 *     sortedArr[k - 1];
29 * }
30
```