NOMBRE		ETAPA / CICLO	CURSO
		CFGSW	1
APELLIDOS		ASIGNATURA/MÓDULO	CONVOCATORIA
		PROG	
DNI	FECHA	NOTA	
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1. (1p) For each line, indicates with comments, when an implicit casting is performed or replace the code to perform an explicit conversion or a transformation between types if necessary.

```
public class E1 {

	public static void main(String[] args) {
		// TODO Auto-generated method stub


		int n1 = 3;


		float n2 = 3;


		int n3 = 'A';


		String n4 = 4;


		n1 = n4 + 3;


		double n5 = n1 + n2;


		float n6 = "6,5" + "5,2";


		double n7 = 8.5f;


		double n8 = 3;

		int n9 = "983".charAt(0);
	}
}
```

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2. (1p) Make the necessary modifications in the following code so it can compile without errors and runs correctly showing the sequence: 0 1 2 3 4 5 6 7 8 9 10

```
public class E2 {
	public static void main(String[] args) {
		// TODO Auto-generated method stub

		i=0

		do{
			System.out.print(i);
		}while(i=10);
	}
}
```

3. (0,5p) Transform the next *while* code into a *for* code.

```
import java.util.Scanner;
public class E3 {

	public static void main(String[] args) {

		Scanner sc = new Scanner(System.in);
		int number;

		System.out.println("Enter a positive integer number:");
		number = sc.nextInt();

		while(number>=0){
			System.out.println(number);
			number--;
		}
	}
}
```

4. (0,5p) Transform the next if code into a switch code.

```
import java.util.Scanner;
public class E4 {
	public static void main(String[] args) {

		Scanner sc = new Scanner(System.in);
		int value;
		System.out.println("Enter a integer number:");
		value = sc.nextInt();

		if (value >= 1 && value <= 3)
```

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```
                System.out.println("Hello !");
            else if (value == 4 || value == 5)
                System.out.println("How are you?");
            else if (value == 0)
                System.out.println("Bye");
            else
                System.out.println("I don't know what to say");
        }
    }
```

5. Make a program that performs the following tasks:
   a. (1p) To ask for the size of a vector and once the size is known, create a String vector of that size.
   b. (1p) Ask the user for the necessary words (without whitespaces) to fill in the vector.
   c. (1p) show the content of the vector with the index of each word.
   d. (2,5 p) Show the vector content that shows the words reversing upper and lower case. For example, if the original word is “Cat” the program must show “cAT”.
      Hint. ASCII values: A=65 a=97
   e. (1,5 p) Show the longest word and where it is.

```
Enter vector size:
3
Enter the word for the position 0
Exam
Enter the word for the position 1
ProGRAm
Enter the word for the position 2
JaVa

Showing the original content.
0 --> Exam
1 --> ProGRAm
2 --> JaVa

Showing the words reversing upper and lower case.
0 --> eXAM
1 --> pROgraM
2 --> jAvA

The longest word is ProGRAm and it’s placed in the position 1
```