

# Fundamentos de Programación

## Grado en Ingeniería del Software

21/11/23

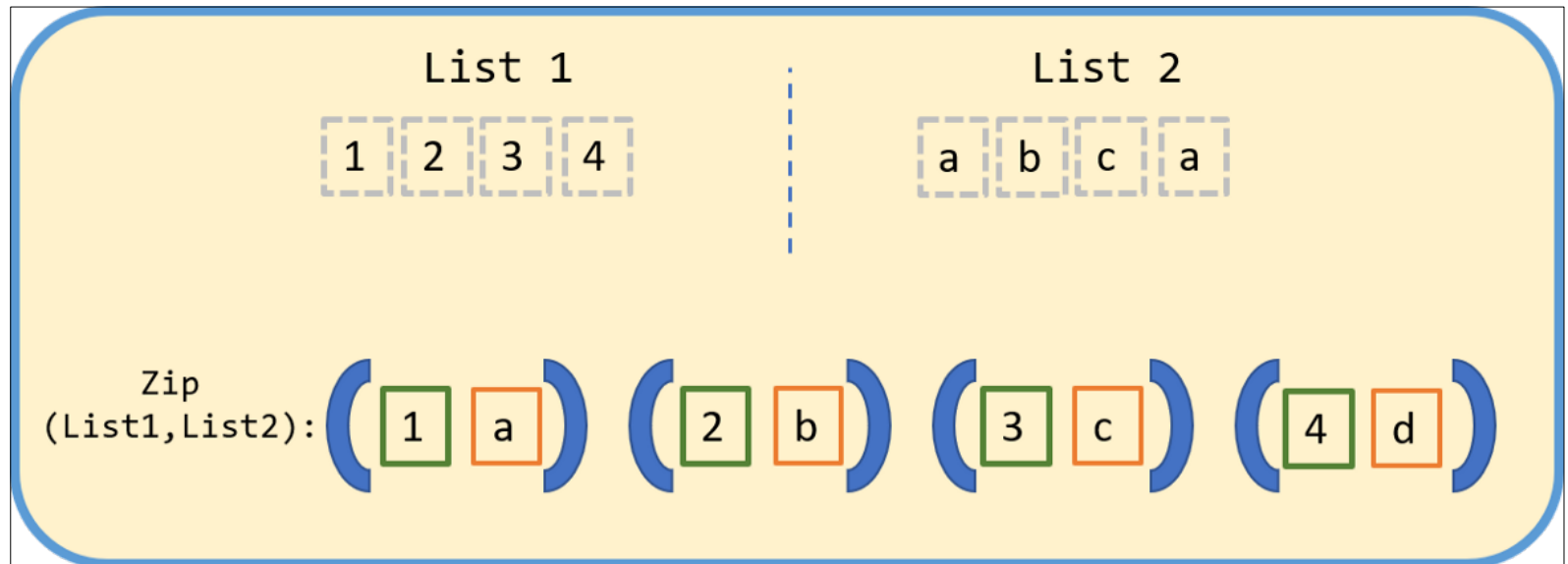
# Antecedentes

- Counter
- DefaultDict
- Agrupación y transformación (agregación)

# Índice

- Zip
- Operador de slicing (":")

**ZIP**



[1 2 3]  
[9 8 7 6 5]

*Iterable 1*

*Iterable 2*

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[(1, 9), (2, 8), (3, 7)]

*Result → as  
zip object*

**OPERADOR SLICING “:”**

P	r	e	p	l	n	s	t	a
0	1	2	3	4	5	6	7	8
-9	-8	-7	-6	-5	-4	-3	-2	-1

arr = arr[0:3]

P	r	e
---	---	---

- Slicing with 2 arguments

arr = arr[:-2]

P	r	e	p	l	n	s
---	---	---	---	---	---	---

- Slicing with negative indexes

arr = arr[::-1]

a	t	s	n	l	p	e	r	P
---	---	---	---	---	---	---	---	---

- Slicing with 3rd negative arguments

arr = arr[::-1]

P	r	e	p	l	n	s	t	a
---	---	---	---	---	---	---	---	---

- Slicing with 3rd arguments

arr = arr[4:]

l	n	s	t	a
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- Slicing with 1 arguments



# TAREA

- Estudiar notebooks 4, 5 y 6
- Ejercicios diccionarios “Ríos y Picos”