

Algorithmics	Student information	Date	Number of session
	UO:300809	22/03/2025	5
	Surname: González Bajo		
	Name: Javier		

Activity 1. Floyd Algorithm

The complexity of this algorithm is $O(n^3)$ as it iterates through a $n \times n$ matrix n times.

n	time
200	299
400	1771
800	11588
1600	83079

As we can see in the table, each time we multiply the n by 2, the time is multiplied by 8 (2^3) so the times correspond with the complexity of the algorithm.