


Algorithmics	Student information	Date	Number of session
	UO: 301949	20/03/2025	5
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Activity 1. MinimumPathTimes

n	Time (ms)
200	215
400	1520
800	11678
1600	
3200	OoT

The theoretical complexity for the Floyd algorithm is $O(n^3)$ which for a size increase of 2, would mean that the times increase by $2^3=8$, which matches the experimental times obtained. It is a cubic complexity due to the three nested loops used to build the costs and paths matrices, iterating through the possible pivots, rows and columns.