

Algorithmics	Student information	Date	Number of session
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## 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.