	Student information	Date	Number of session
Algorithmics	UO: 293860	17/03/2024	4
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Ingeniería

## Activity 1. Pattern matching algorithm

Name: Juan

The time complexity of the algorithm implemented might seem to be O(n²) because it has two for loops, however this is not true since one of the loops depend on the word to be tested and the other on the pattern. As a result we get a complexity of O(word length \* pattern length). The algorithm could e improved by using a single dimension array rather than a matrix.