- These concepts give you a way to describe how the time taken for the function to run grows as it size grows

- Time taken to run a function depends on various factors such as speed of computer, programming language used etc

- The key question to answer is how does the runtime of the function grow as the number of elements increases.

Types of time complexity

- Linear time, O(n)

- Constant time O(1)

- Quadratic time O(n^2)

To find the time complexity, find the fastest growing term in the equation and take out the coefficient