Analysis Of Algorithms

What is an algorithm ?

* An algorithm is a set of steps of operations to solve a problem or a process that includes several steps to solve a problem easily and efficiently and it is independent from any programming language.

What is Analysis Of Algorithms ?

* Analysis of algorithms is the determination of the amount of time and space resources required to execute it.
* It’s theoretical determination that how much resource will be required by that program to execute.
* Or we can say it’s a problem solving capability of algorithm in terms of time and space.

Why it is required ?

Well algorithms are different from one another but the objective are the same, lets take an example of **bubble sort** and **merge sort**. Bubble sort doesn’t require additional memory but it do take more time to execute Merge sort require more memory but lesser time to execute.

Conclusion : So to choose best algorithm for a particular problem at particular real time situation we need analysis of algorithm.