

Analysis of Algorithms.

Algorithm	Time Complexity	Space Complexity
1. addMatrices()	Time = $O(m \times n)$ where m, n are rows & columns respectively.	Space is required to store the elements of addition matrix. Space complexity is $O(m \times n)$ where m, n are rows, columns respe.
2. SubMatrices()	$O(m \times n)$ where m, n are rows & columns respectively.	Space complexity is $O(m \times n)$ where m, n are rows & columns respectively.
3. MultMatrices()	Let $A_{m \times n}$ & $B_{n \times p}$ then time complexity will be $O(m \times n \times p)$	Space complexity is $O(m \times p)$ where $A_{m \times n}$ & $B_{n \times p}$.
4. Transpose()	$O(m \times n)$ where m, n are rows & columns of matrix	$O(m \times n)$ where m, n are rows & columns of matrix.