**What is pseudo-polynomial ?**  
An algorithm whose worst case time complexity depends on numeric value of input (not number of inputs) is called Pseudo-polynomial algorithm.  
For example, consider the problem of counting frequencies of all elements in an array of positive numbers. A pseudo-polynomial time solution for this is to first find the maximum value, then iterate from 1 to maximum value and for each value, find its frequency in array. This solution requires time according to maximum value in input array, therefore pseudo-polynomial. On the other hand, an algorithm whose time complexity is only based on number of elements in array (not value) is considered as polynomial time algorithm.

**Pseudo-polynomial and NP-Completeness**  
Some NP-Complete problems have Pseudo Polynomial time solutions. For example, Dynamic Programming Solutions of [0-1 Knapsack](http://www.geeksforgeeks.org/dynamic-programming-set-10-0-1-knapsack-problem/), [Subset-Sum](http://www.geeksforgeeks.org/dynamic-programming-subset-sum-problem/) and [Partition](http://www.geeksforgeeks.org/dynamic-programming-set-18-partition-problem/) problems are Pseudo-Polynomial. NP complete problems that can be solved using a pseudo-polynomial time algorithms are called weakly NP-complete.