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**GTU Department of Computer Engineering
CSE344 - Spring 2021
Homework X Report**

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1 Problem Definition

The problem is to find if a subset of given array elements can sum up to the target num.

This problem called as SUBSETSUM which is one of the popular problem in dynamic programming.

Inputs: arr(Array), num(target sum), size(size of Array)

Output: Possible or Not possible (0 or 1)

2 Solution

Since, this problem is a recursive backtracking problem I made my algorithm by using following approach.

2.1 Functions

First function is given function in homework I used it to check some extreme cases such as num is equal to 0 which is already Not Possible case and to initialize variables such as total sum.