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# Subset sum problem

Given an array of non-negative integers, and a value *sum*, determine if there is a subset of the given set with sum equal to given *sum*.

## **Example 1:**

#### Input

6

3 34 4 12 5 2

9

#### **Output:**

2

#### Input:

N = 6

 $arr[] = {3, 34, 4, 12, 5, 2}$ 

sum = 9

Output: 2

**Explanation:** Here there exists subset with sum = 9 are

3+4+2 = 9, 5+4 = 9





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# Example 2:

# Input

6

3 34 4 12 5 2

30

## **Output:**

0

## Input:

N = 6

 $arr[] = {3, 34, 4, 12, 5, 2}$ 

sum = 30

Output: 0

Explanation: There is no subset with sum 30.