Given a set 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:**

**Input:** set[] = {3, 34, 4, 12, 5, 2}, sum = 9

**Output:** True

There is a subset (4, 5) with sum 9.

**Input:** set[] = {3, 34, 4, 12, 5, 2}, sum = 30

**Output:** False

There is no subset that add up to 30.