//PRINT THE SUM OF SUBSETS

#include <iostream>

#include <string>

using namespace std;

#define MAX 10

int n, m;

int set[MAX];

void sumOfSubset(int sum, int item, int remainingCapacity, string vector){

if(sum == m && remainingCapacity == 0){

cout << vector << endl;

}

if(sum > m || remainingCapacity == 0){

return;

}

sumOfSubset(sum + set[item], item + 1, remainingCapacity - set[item], vector + "1 "); // Include the current element

sumOfSubset(sum, item + 1, remainingCapacity - set[item], vector + "0 "); // Exclude the current element

}

int main()

{

int totalSum = 0;

string vector = "";

cout << "Enter the Number of Elements in the Set : ";

cin >> n;

cout << "Enter the Elements in the set : ";

for(int i=0; i < n; i++){

cin >> set[i];

totalSum += set[i];

}

cout << "Enter the Integer : ";

cin >> m;

cout << "The Solution Vectors are :- " << endl;

sumOfSubset(0, 0, totalSum, vector);

return 0;

}

OUTPUT:

