**Sum of subsets**

#include <stdio.h>

bool isSubsetSum(int set[], int n, int sum)

{

if (sum == 0)

return true;

if (n == 0)

return false;

if (set[n - 1] > sum)

return isSubsetSum(set, n - 1, sum);

return isSubsetSum(set, n - 1, sum)

|| isSubsetSum(set, n - 1, sum - set[n - 1]);

}

int main()

{

int set[] = { 3, 34, 4, 12, 5, 2 };

int sum = 9;

int n = sizeof(set) / sizeof(set[0]);

if (isSubsetSum(set, n, sum) == true)

printf("Found a subset with given sum");

else

printf("No subset with given sum");

return 0;

}

