**Gets random sum of elements from an array that whose sum satisfies max condition**

const utils = {

// Sum an array

sum: arr => arr.reduce((acc, curr) => acc + curr, 0),

// create an array of numbers between min and max (edges included)

range: (min, max) => Array.from({ length: max - min + 1 }, (\_, i) => min + i),

// pick a random number between min and max (edges included)

random: (min, max) => min + Math.floor(Math.random() \* (max - min + 1)),

// Given an array of numbers and a max...

// Pick a random sum (< max) from the set of all available sums in arr

randomSumIn: (arr, max) => {

const sets = [[]];

const sums = [];

for (let i = 0; i < arr.length; i++) {

for (let j = 0, len = sets.length; j < len; j++) {

const candidateSet = sets[j].concat(arr[i]);

const candidateSum = utils.sum(candidateSet);

if (candidateSum <= max) {

sets.push(candidateSet);

sums.push(candidateSum);

}

}

}

return sums[utils.random(0, sums.length - 1)];

},

};