const data = [{

project: 'P1',

student: 'S1',

score: 20,

}, {

project: 'P1',

student: 'S2',

score: 30,

}, {

project: 'P1',

student: 'S3',

score: 20,

}, {

project: 'P2',

student: 'S1',

score: 10,

}, {

project: 'P2',

student: 'S2',

score: 10,

}, {

project: 'P2',

student: 'S3',

score: 40,

}];

const compute = (data) => {

let map = {};

let result = [];

data.forEach((student) => {

map[student.student] = map.hasOwnProperty(student.student) ? map[student.student] + student.score : student.score;

})

for (let key of Object.keys(map)) {

if (map[key] > 50) {

result.push(key);

}

}

console.log(result);

}

const t0 = performance.now();

compute(data);

const t1 = performance.now();

console.log(t1 - t0);

//time complexity is O(n) as both the loops are individual.