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ödev linki: <https://halil-kaya.github.io/AdvancedProgramming/hw2/students.html>

127.0.

Student Database

Random

Best GPA

Clear

Student id:

116690070

Show Exam Schedule

Course id:

math 206

Show Student list

Exam room:

GG306

Show Course list

Total Course Number

Course id:

math 206

Rooms of course

Second Example

Result:

3128 items

262 items

Random: 214112176

BPP 101 09:00-12:00 9.01.2017

BPP 103 12:00-15:00 12.01.2017

BPP 105 12:00-15:00 2.01.2017

BPP 107 09:00-12:00 11.01.2017

BPP 109 09:00-12:00 5.01.2017

UNIM 103 09:00-12:00 4.01.2017

210111218 BÜŞRA

210120566 ALİ

211591500 HALİD

211592939 MEHTAP

212060878 TUNAHAHAN

212071464 DOĞUKAN

212470775 SAADI

212970519 GÖKTUĞ

212971338 EBUZER

213011336 BÜŞRA

213012739 ÖMER

213060580 BANAN

213071060 MOHAMMED

213122265 MUSAB

213152275 ABDULLAH

213162530 RAHMAN

213511060 AMROU

213872247 YASİN

213872275 TARIK

213901356 YASİR

213911213 SİNAN

213912284 ŞAMİL

213960213 FADDALE

213961619 FURKAN

213962589 BAHADIRHAN

213972059 AHMET

Student Database

Random Best GPA Clear

Student id: 116690070 Show Exam Schedule

Course id: math 206 Show Student list

Exam room: GG306 Show Course list

Total Course Number

Course id: math 206 Rooms of course

Second Example

Result:
3128 items
262 items
BZ014
BZ015
BZ019
first count: 2962
second count: 2962
first: 1
second: 1

Random Best GPA Clear

Student id: 116690070 Show Exam Schedule

Course id: math 206 Show Student list

Exam room: GG306 Show Course list

Total Course Number

Course id: math 206 Rooms of course

Second Example

Result:
3128 items
262 items
ADP 101
GTP 101
total course number: 2
BZ014
BZ015
BZ019

Sample code

```
function showStudent(id) {
    let std = stdMap.get(id);
    if (!std) return report(id+" not found");
    let t = std.toString()
    report(t, ("+"std.list.length+" courses)", std.list);
    return std
}
function showCourse(id) {

    id = id.toUpperCase();
    let a = [];
    for (let std of stdMap.values())
        if (std.list.includes(id))
            a.push(std.id+" "+std.name);
    if (a.length > 0){
        report(id+": ", a.length+" students", a);
        report("time: " + crsMap.get(id).time + "\ndate: " + crsMap.get(id).date)
    }

    else report("No students in "+id);
    return a
}
function showExamSchedule(studentid)
{
    for (let student of stdMap.values())
        if (student.id == studentid)
            for (let studentlist of student.list) {
                for (let cours of crsMap.values()) {
                    if(studentlist == cours.id)
                        report(cours.id + " " +cours.time + " " + cours.date)
                }
            }
}
function showStudentList(id){
    id = id.toUpperCase();
    let a = [];
    for (let std of stdMap.values())
        if (std.list.includes(id))
            a.push(std.id+" "+std.name);
    if (a.length > 0){
        for (let x of a) {
            report(x);
        }
    }
    else report("No students in "+id);
    return a
}
function showCourseList(courseid){
    for (let course of crsMap.values()) {
        for (let room of course.rooms) {
            if(courseid == room){
                report(course.id )
            }
        }
    }
}
function tcn(id){
    function tcn(id){
        var count = 0
        for (var course of crsMap.values()) {
            for (var room of course.rooms) {
                if(id == room){
                    count++
                }
            }
        }
        report("total course number: " + count)
    }
}
function secondExample(){
    let keys = [];
    for (let x of stdMap) {
        keys.push(x[0])
    }
    let number = 316183813;
    let count1 = 0
    let count2 = 0
    var firstTime = Date.now()
    for (let index = number; index < number + 10000; index++) {
        if(stdMap.has(index.toString())){
            count1++
        }
    }
    var timeOfHas = Date.now() - firstTime;
    firstTime = Date.now()
    for (let index = number; index < number + 10000; index++) {
        if(keys.includes(index.toString())){
            count2++
        }
    }
    var timeOfIncludes = Date.now() - firstTime;

    var text = "counter of hash = " + count1
                + "\ncounter of inludes = " + count2
                + "\nhas milisecond= " + timeOfHas
                + "\ninlude milisecond = " + timeOfIncludes + "\n"

    document.getElementById("secondExample").innerText = text
}
}
```