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//
// main.m
// 学生信息记录
//
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//

#import <Foundation/Foundation.h>

int main(int argc, const char * argv[]) {
    @autoreleasepool {
        // insert code here...
        NSLog(@"Hello, World!");

        char name[100];
        int number;
        int grade1;
        int grade2;
        int grade3;

        NSLog(@"请依次输入学生姓名 学号 语文成绩 数学成绩 英语成绩!\n");

        scanf("%s %d %d %d %d", name, &number, &grade1, &grade2, &grade3); //接收键盘输入的内容
        int sum1 = grade3+grade2+grade1;
        NSString *string1= [NSString stringWithFormat:@"姓名:%s 学号:%d 语文成绩:%d 数学成绩:%d 英语成绩:%d", name, number, grade1, grade2, grade3]; //将C语言格式的字符串转化为OC格式的字符串

        scanf("%s %d %d %d %d", name, &number, &grade1, &grade2, &grade3); //接收键盘输入的内容
        int sum2 = grade3+grade2+grade1;
        NSString *string2= [NSString stringWithFormat:@"姓名:%s 学号:%d 语文成绩:%d 数学成绩:%d 英语成绩:%d", name, number, grade1, grade2, grade3]; //将C语言格式的字符串转化为OC格式的字符串

        scanf("%s %d %d %d %d", name, &number, &grade1, &grade2, &grade3); //接收键盘输入的内容
        int sum3 = grade3+grade2+grade1;
        NSString *string3= [NSString stringWithFormat:@"姓名:%s 学号:%d 语文成绩:%d 数学成绩:%d 英语成绩:%d", name, number, grade1, grade2, grade3]; //将C语言格式的字符串转化为OC格式的字符串

        scanf("%s %d %d %d %d", name, &number, &grade1, &grade2, &grade3); //接收键盘输入的内容
        int sum4 = grade3+grade2+grade1;
        NSString *string4= [NSString stringWithFormat:@"姓名:%s 学号:%d 语文成绩:%d 数学成绩:%d 英语成绩:%d", name, number, grade1, grade2, grade3]; //将C语言格式的字符串转化为OC格式的字符串

        scanf("%s %d %d %d %d", name, &number, &grade1, &grade2, &grade3); //接收键盘输入的内容
        int sum5 = grade3+grade2+grade1;
        NSString *string5= [NSString stringWithFormat:@"姓名:%s 学号:%d 语文成绩:%d 数学成绩:%d 英语成绩:%d", name, number, grade1, grade2, grade3]; //将C语言格式的字符串转化为OC格式的字符串

        NSLog(@"%@", string1);
        NSLog(@"%@", string2);
        NSLog(@"%@", string3);
        NSLog(@"%@", string4);
        NSLog(@"%@", string5);

        int a[5] = {sum1, sum2, sum3, sum4, sum5};
        NSMutableArray * stringArr = [NSMutableArray arrayWithObjects:string1, string2, string3, string4, string5, nil];
        NSMutableArray * array = [NSMutableArray array];
        int i, j;
        for(i = 0; i < 5; i++)
        {
            for(j = 0; i + j < 5 - 1; j++)
            {
                if(a[j] > a[j + 1])
                {
                    int temp = a[j];
                    a[j] = a[j + 1];
                    a[j + 1] = temp;

                    NSString * str = stringArr[j];
                    stringArr[j] = stringArr[j+1];
                    stringArr[j+1] = str;
                }
            }
        }
    }
}

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    }
    [array addObject:stringArr[i]];
}

NSString * string = [NSString stringWithFormat:@"%s\n%s\n%s\n%s",array[4],array[3],
    array[2],array[1],array[0]];
NSString *homePath = NSHomeDirectory();
NSString *filePath = [homePath stringByAppendingPathComponent:@"Documents/stu.text"];
NSLog(@"沙盒目录:%@",filePath);
NSFileManager *manager = [NSFileManager defaultManager];
NSData *data = [string dataUsingEncoding:NSUTF8StringEncoding];
[manager createFileAtPath:filePath contents:data attributes:nil];
}
return 0;
}
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