

# 变量运算与小数定义

## 人员

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## 作业检查

2024-1109周六15:30

报名

编辑比赛

题目数10 | 报名人数17

比赛说明 | 题目列表 | 排行榜

名次	参赛者	总分	A	B	C	D	E	F	G	H	I	J
#1	张祐嘉	1000 (12.99h)	100 (25.85min)	100 (45.30min)	100 (48.00min)	100 (1.34h)	100 (1.43h)	100 (1.48h)	100 (1.58h)	100 (1.65h)	100 (1.74h)	100 (1.78h)
#2	管怡达	1000 (13.39h)	100 (26.03min)	100 (44.32min)	100 (48.30min)	100 (1.33h)	100 (1.48h)	100 (1.54h)	100 (1.60h)	100 (1.64h)	100 (2.08h)	100 (1.75h)
#3	胡瑾泽	1000 (13.52h)	100 (29.95min)	100 (45.72min)	100 (54.17min)	100 (1.34h)	100 (1.42h)	100 (1.49h)	100 (1.57h)	100 (1.73h)	100 (1.88h)	100 (1.92h)
#4	唐敬瑶	1000 (14.82h)	100 (30.27min)	100 (49.07min)	100 (59.37min)	100 (1.36h)	100 (1.51h)	100 (1.56h)	100 (1.74h)	100 (1.92h)	100 (2.33h)	100 (2.08h)
#5	张瑞熙	1000 (16.00h)	100 (33.55min)	100 (46.32min)	100 (50.17min)	100 (1.34h)	100 (1.48h)	100 (1.52h)	100 (1.68h)	100 (1.78h)	100 (4.23h)	100 (1.81h)
#6	刘逸	1000 (1.22d)	100 (29.50min)	100 (45.07min)	100 (48.35min)	100 (1.34h)	100 (1.45h)	100 (1.53h)	100 (1.62h)	100 (1.70h)	100 (17.74h)	100 (1.75h)
#7	赛杨子	1000 (2.45d)	100 (28.38min)	100 (45.33min)	100 (48.62min)	100 (1.35h)	100 (1.41h)	100 (1.47h)	100 (1.57h)	100 (20.16h)	100 (1.21d)	100 (1.82h)
#8	孙鹤轩	1000 (2.88d)	100 (27.83min)	100 (48.53min)	100 (50.55min)	100 (1.38h)	100 (1.52h)	100 (1.57h)	100 (1.82h)	100 (1.92h)	100 (1.23d)	100 (1.22d)
#9	王奕辰	1000 (3.75d)	100 (29.98min)	100 (45.67min)	100 (48.62min)	100 (1.34h)	100 (1.55h)	100 (1.64h)	100 (1.70h)	100 (1.83h)	100 (3.25d)	100 (1.88h)
#10	王梓钧	1000 (4.05d)	100 (26.08min)	100 (45.40min)	100 (52.23min)	100 (1.51h)	100 (1.55h)	100 (1.62h)	100 (1.77h)	100 (1.22d)	100 (1.23d)	100 (1.24d)
#11	王伯安	900 (11.49h)	100 (27.10min)	100 (45.68min)	100 (48.85min)	100 (1.34h)	100 (1.52h)	100 (1.57h)	100 (1.61h)	100 (1.68h)		100 (1.74h)
#12	王子涵	900 (11.55h)	100 (35.17min)	100 (45.72min)	100 (49.85min)	100 (1.35h)	100 (1.45h)	100 (1.53h)	100 (1.61h)	100 (1.69h)		100 (1.74h)
#13	张和嘉	900 (11.60h)	100 (30.78min)	100 (45.18min)	100 (48.68min)	100 (1.39h)	100 (1.51h)	100 (1.57h)	100 (1.62h)	100 (1.68h)		100 (1.76h)

## 作业

https://www.luogu.com.cn/contest/214022

## 课堂表现

同学们课上听讲做题都很积极，很认真，向所有同学提出表扬！！

不过要注意的一点是, 做题遇到错误时, 尽量先尝试独立思考完成, 不要急于看其他同学代码。

## 课堂内容

### 课堂新课

### 1. 几种运算方式:

加、减、乘、整除、取余 -> 针对整数

◦     ■     ■ / % (取余只能针对于整数用)

如果 / 的两边都是整数, 得到的结果一定是整数 (商)

int a, b; a/b -> a 除以 b 的商 <-> 整除

余数 = 被除数 - 除数商 =  $a - b(a/b)$

a 除以 b 的余数: a%b

### 2. 小数:

默认用小数: 33.0, 1.0, 5.0

小数/整数, 整数/小数, 小数/小数

(a+b+c)/3.0

cout << 1.0\*a/b << endl; 更推荐的写法

cout << a/(b\*1.0) << endl;

### 3. 变量类型:

整数: int

小数: double

double c = 1.0 \* a / b; 很容易出错

### 4. 保留几位小数:

头文件: #include <iomanip>

cout << fixed << setprecision(4) << c;

## U504551 米老鼠偷糖果

```
#include<iostream>
#include<iomanip>
using namespace std;
int main() {
    int n, a, x;
    cin >> n >> a >> x;
    cout << n - a*x;
    return 0;
}
```

## U504552 扩建花园

```
#include<iostream>
#include<iomanip>
using namespace std;
int main() {
    int m, n, s;
    cin >> m >> n >> s;
    cout << m * (s/n);
    return 0;
}
```

### U504542 猜 d 的值

```
#include<iostream>
#include<iomanip>
using namespace std;
int main() {
    int a, b, c;
    cin >> a >> b >> c;
    cout << a-b-c;
    return 0;
}
```

### U504554 求三个数的平均数

```
#include<iostream>
#include<iomanip>
using namespace std;
int main() {
    int a, b, c;
    cin >> a >> b >> c;
    cout << fixed << setprecision(3) << (a+b+c)/3.0;
    return 0;
}
```

### U504559 挖胡萝卜

```
#include<iostream>
#include<iomanip>
using namespace std;
int main() {
    int tu;
    cin >> tu;
    int hu = 3*tu;
    int yang = hu-8;
    double ping = (tu+hu+yang)/3.0;
```

```
    cout << hu << endl;
    cout << yang << endl;
    cout << fixed << setprecision(1) << ping << endl;
    return 0;
}
```

### P1425 小鱼的游泳时间

```
#include<iostream>
#include<iomanip>
using namespace std;
int main() {
    int a, b, c, d;
    cin >> a >> b >> c >> d;
    int t = (c-a)*60 + (d-b);

    cout << t/60 << " " << t%60 << endl;
    return 0;
}
```