

计算机作业 25/10/08

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1 P34 T4

代码:

```
1 #include<stdio.h>
2 int main()
3 {
4     while(1)
5     {
6         double m,kg,bmi;
7         printf("Please input your height(m) and weight(kg),input \"0 0\" to
8             quit.");
9         scanf("%lf %lf",&m,&kg);
10        if(m==0&&kg==0)
11            break;
12        bmi=kg/m/m;
13        bmi>25?(printf("You are so big\n")):(bmi<20?printf("You are so
14             small\n"):printf("You are normal\n"));
15    }
16    return 0;
17 }
```

伪代码

重复执行

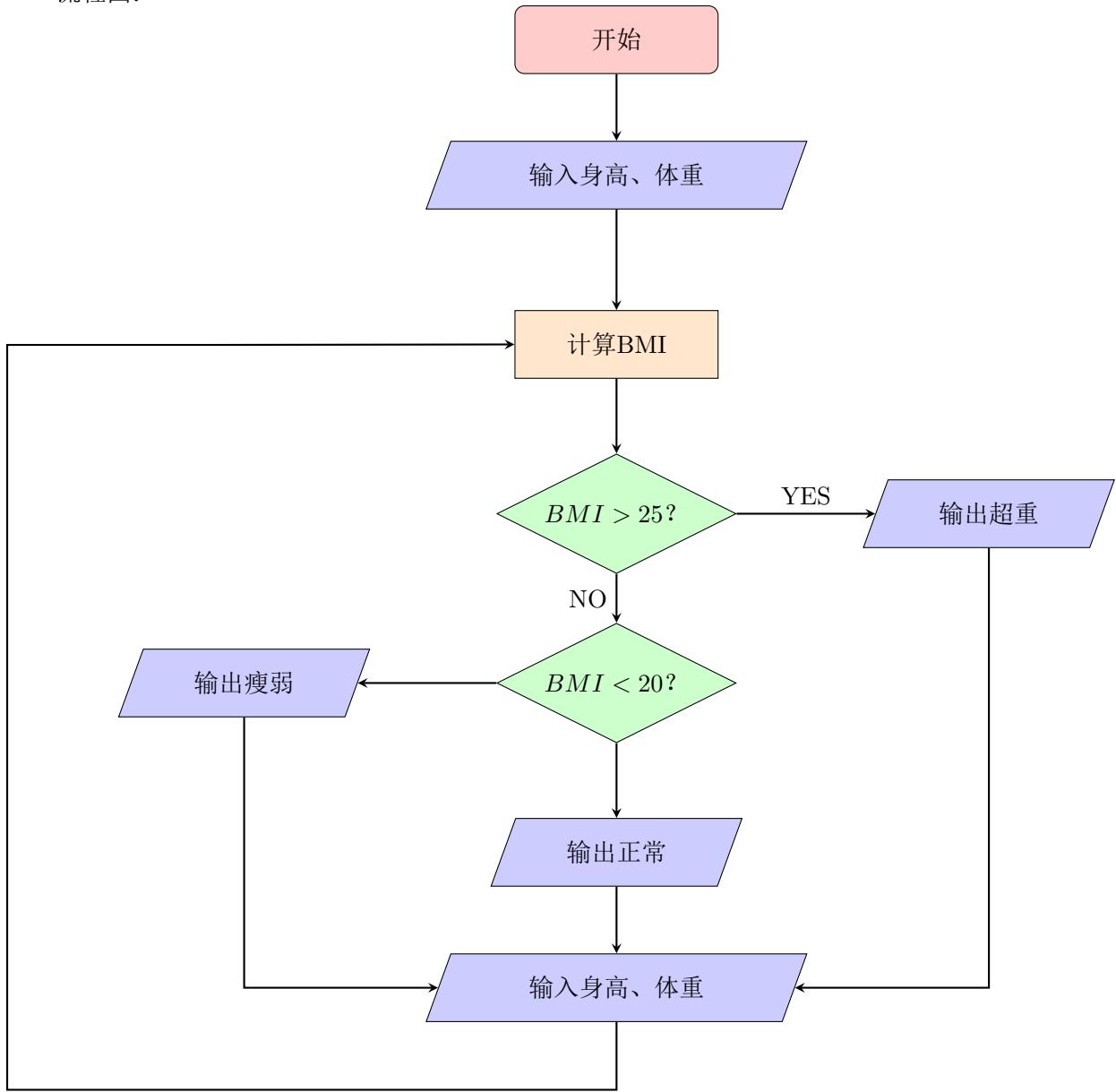
从键盘输入身高(m)、体重(kg)

if m=0 and kg=0,退出

算BMI=体重/ (身高*身高)

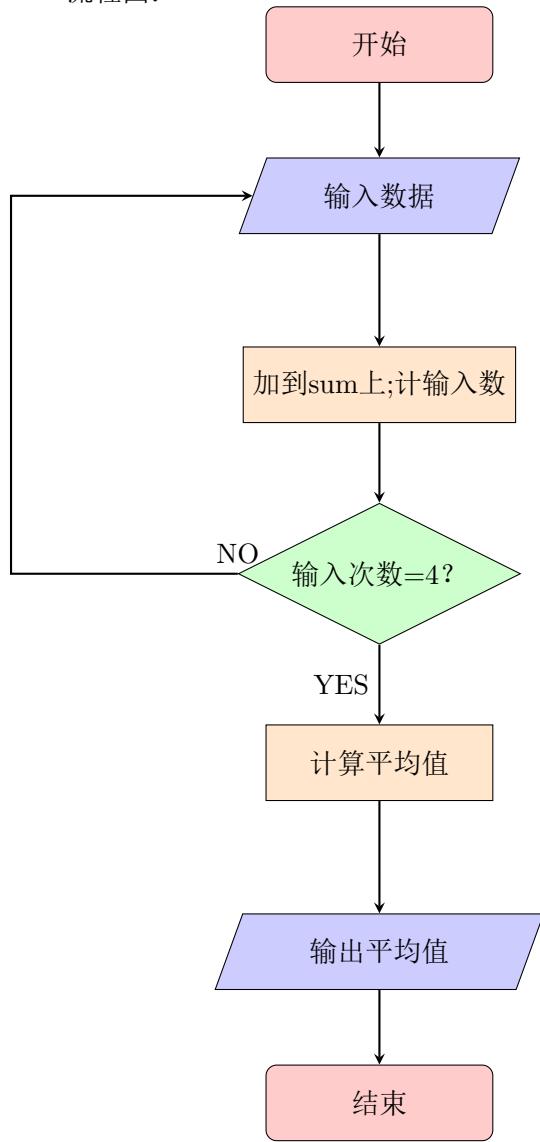
$BMI > 25?$ 输出超重; $(BMI < 20?)$ 输出瘦弱;输出正常)

流程图:



2 P34 T7

流程图:



3 P91 T5

long long int占据64位八字节的数据可以表示 -2^{63} 到 $2^{63} - 1$

当整数运算结果超出long long int时可以将整数以十进制储存在数组中,写算法对数组内的数据进行四则运算

4 P91 T7

```
1 #include<stdio.h>
2 #define A m==0&&kg==0) break;
3 #define B bmi=kg/m/m;
4 #define C printf("You are so big\n")):(bmi<20?printf("You are so small\
      n") :printf("You are normal\n"));
5 #define D printf("Please input your height(m) and weight(kg),input \"0\
      \0\" to quit.");
6 #define E scanf("%lf %lf",&m,&kg);
7 int main()
8 {
9 while(1)
10 {
11     double m,kg,bmi;
12     D
13     E
14     if(A
15         B
16         bmi>25?(C
17     }
18     return 0;
19 }
```

编译不能通过的写法：

```
1 #define { (
2     #define } )
```

因为包含C的关键字