```c
#include <stdio.h>
int main ()
{
    float data [4];
    float sum=0, ave;
    int i, n=0;
    for (i=0; i<4; i++);
    {
        scanf ("%f", &data [i]);
        if (data [i] >0)
        {
            sum= sum+ data [i];
            n= n+1;
        }
    }
    if (n==0)
    {
        printf (" No positive number entered");
    } else {
        ave= sum/n;
        printf ("The average is %.2f", ave);
    }
    return 0;
}
```

```c
#include <stdio.h>
int main ()
{
    int data [5] = {1,2,3,4,5};
    int max = data [0], min = data [0], i;
    for ( i=1 ; i<5; i++ )
    {
        it ( data [i] >max)
        {
            max = data [i];
        }
        it (data [i] < min )
        {
            min = data [i];
        }
    }
    printf (" Maximum value is %d\n Minimum value is %d",
            max, min );
    return 0 ;
}
```

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1、

```c
#include <stdio.h>
int main () {
    int data[5];
    int max, min, i;
    for (i=0; i<5; i++) {
        printf("请输入第%d个数据\n", i+1);
        scanf("%d", &data[i]);
        while (data[i]<0) {
            printf("请重新输入第%d个数据\n", i+1);
            scanf("%d", &data[i]);
        }
    }
    max = data[0];
    min = data[0];
    for (i=1; i<5; i++) {
        if (data[i]>max) {
            max = data[i];
        }
        if (data[i]<min) {
            min = data[i];
        }
    }
    printf("最大值是%d\n最小值是%d", max, min);
    return 0;
}
```

2.

```
        ┌─────────┐
        │  开始    │
        └─────────┘
             │
             ▼
        ┌─────────┐
        │  i=0     │
        └─────────┘
             │
             ▼
          ◇ i<5 ◇ ──────── N ──────────┐
             │ Y                        │
             ▼                          │
      ╱从键盘接收C╱                      │
             │                          │
             ▼                          │
       ◇ C为大写字母 ◇ ──── N ───┐       │
             │ Y                 │       │
             ▼                   ▼       │
   ╱输出C对应的小写╱      ╱输出C╱        │
             │                   │       │
             ▼                   │       │
        ┌─────────┐ ◄───────────┘       │
        │  i++     │ ◄──────────────────┘
        └─────────┘
             │
             ▼
        ┌─────────┐
        │  结束    │
        └─────────┘
```
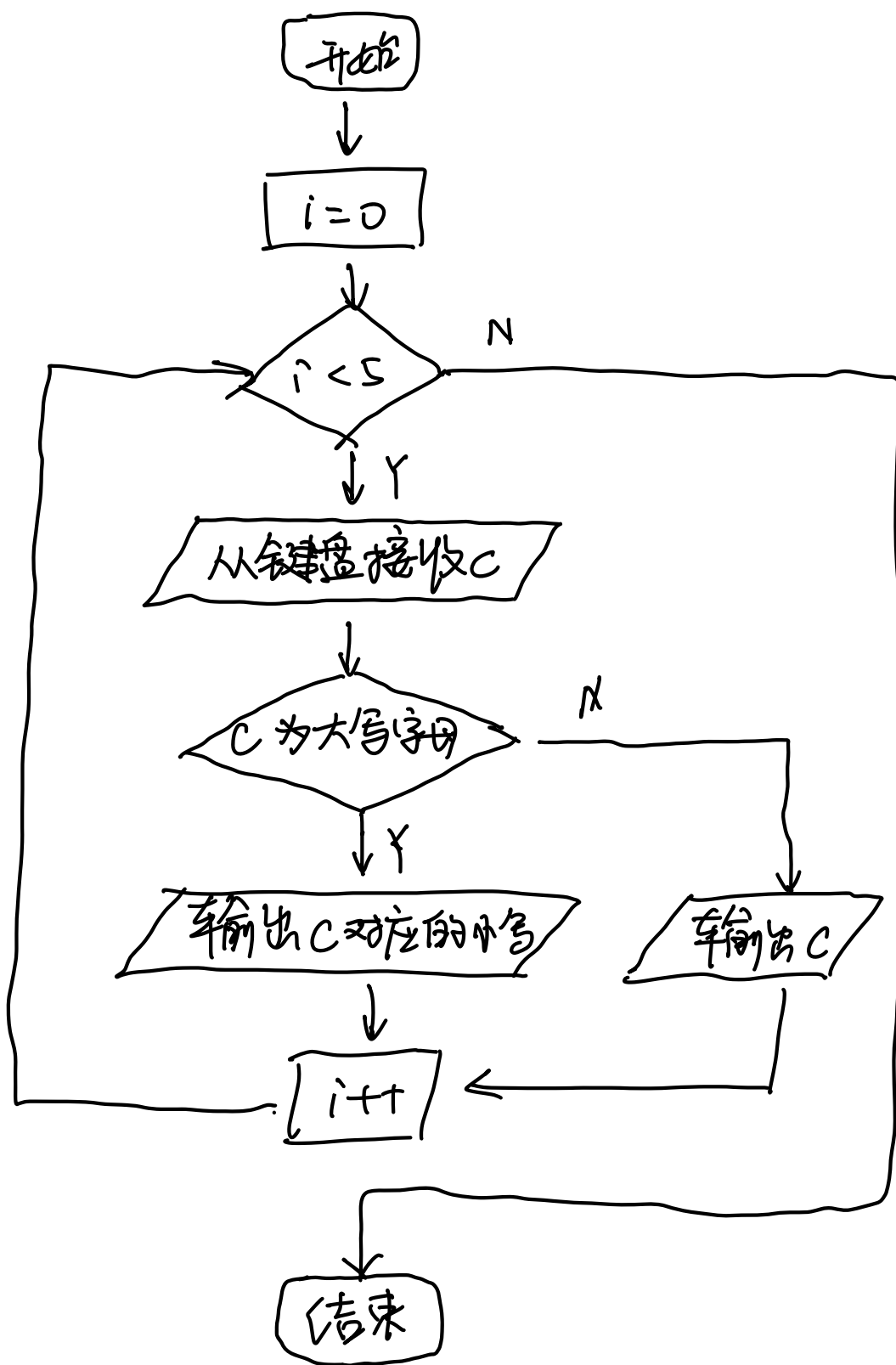
```c
#include <stdio.h>
int main() {
    char c;
    int i;
    for (i=0; i<5; i++) {
        c = getchar();
        if (c>64 && c<91)
            putchar(c-'A'+'a');
        else
            putchar(c);
    }
    return 0;
}
```

3.

```
                    开始
                     |
                     v
从键盘接收三个整数 num1, num2, num3
                     |
                     v
   Y  <--------- num1 > num2 ---------> N
   |                                    |
   v                                    v
max=num1                            max=num2
   |                                    |
   +----------------+-------------------+
                    |
                    v
        num3 > max ------------------> N
             |                         |
             v Y                       |
        max=num3                       |
             |                         |
             v                         |
输出"这三个整数中最大值为 max" <--------+
                     |
                     v
                    结束
```

4.
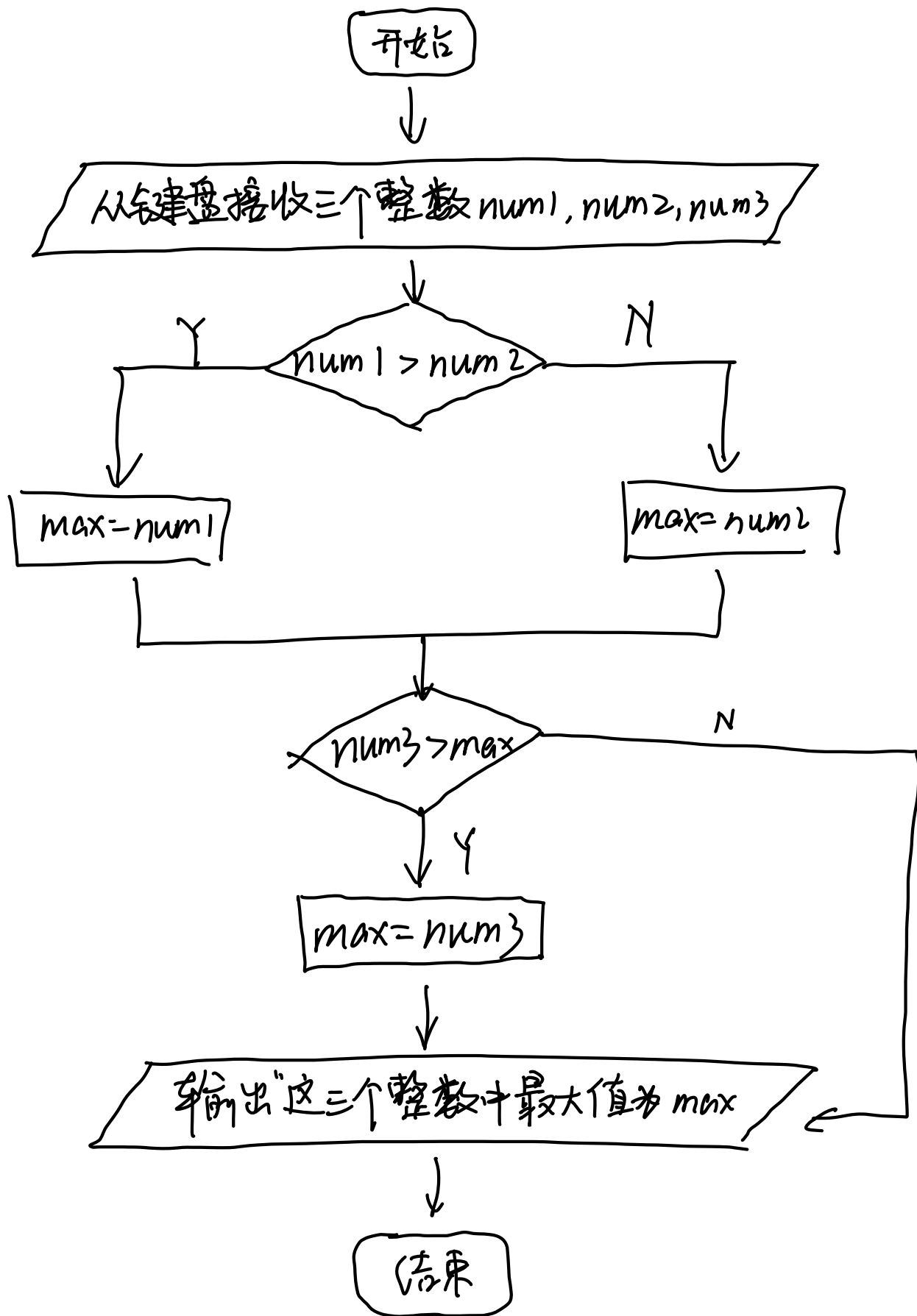
```c
#include <stdio.h>
int main(){
    char data[6]
    int i, a=0 ;
    printf("请输入三个小写字母\n");
    while (a<3) {
        for (i=0; i<3; i++){
            data[i] = getchar();
        }
        for (i=0; i<3; i++) {
            if (data[i]>96 && data[i]<123 );
                a=a+1;
        }
        if (a!=3)
            printf("请重新输入三个小写字母\n");
    }
    for (i=3; i<6; i++)
        data[i] = data[0];
    for (i=0; i<3; i++) {
        if (data[i] > data[5])
            data[5] = data[i];
        if (data[i] < data[3])
            data[3] = data[i];
```

```
        if (data [i] != data [3] && data [i] != data [5])
            data [4] = data [i];
    }
    for (i=3; i<6; i++)
        putchar (data [i]);
    return 0;
}
```

```c
10.8
#include <stdio.h>
int main(){
    float a=1, b=1, c=0, d
    while(b>0) {
        printf("请输入个人收入值");
        scanf("%f", &a);

        d=a-5000;
        if (a<=0)

            b=b-1;
        else if (a>0 && a<= 5000)

            c=0 ;
        else if ( d>0 && d<=36000)

            c= d * 0.03 ;
        else if (d>36000 && d<=144000)

            c= d * 0.1 - 2520;
        else if (d>144000 && d<=300000)

            c= d * 0.2 - 16920;
        else if ( d>300000 && d<= 420000)

            c= d* 0.25 - 31920;
        else if (d> 420000 && d<= 660000)

            c= d* 0.3 - 52920;
```

```
        else if (d>660000 && d<=960000)
            c= d* 0.35 - 85920;
        else if (d>960000)
            c= d* 0.45 - 181920;
    }
    return 0 ;
}
```