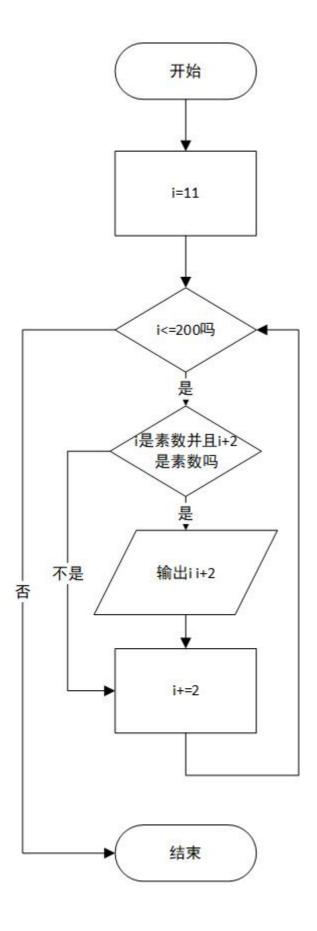
## 第一题:

```
#include <stdio.h>
   #include <math.h>
 2
   #include <stdlib.h>
 3
   #pragma warning(disable:4996)
   bool isprime(int a);
 5
    int main() {
 6
 7
        for (int i = 11; i <= 200; i += 2) {
            if (isprime(i) && isprime(i + 2))printf("%d %d\n", i, i +
 8
    2);
 9
        }
10
11
12
        return 0;
13
    bool isprime(int a) {
14
        for (int i = 2; i \leftarrow sqrt(a); i++) {
15
            if (a % i == 0)return false;
16
17
18
        return true;
19 }
```

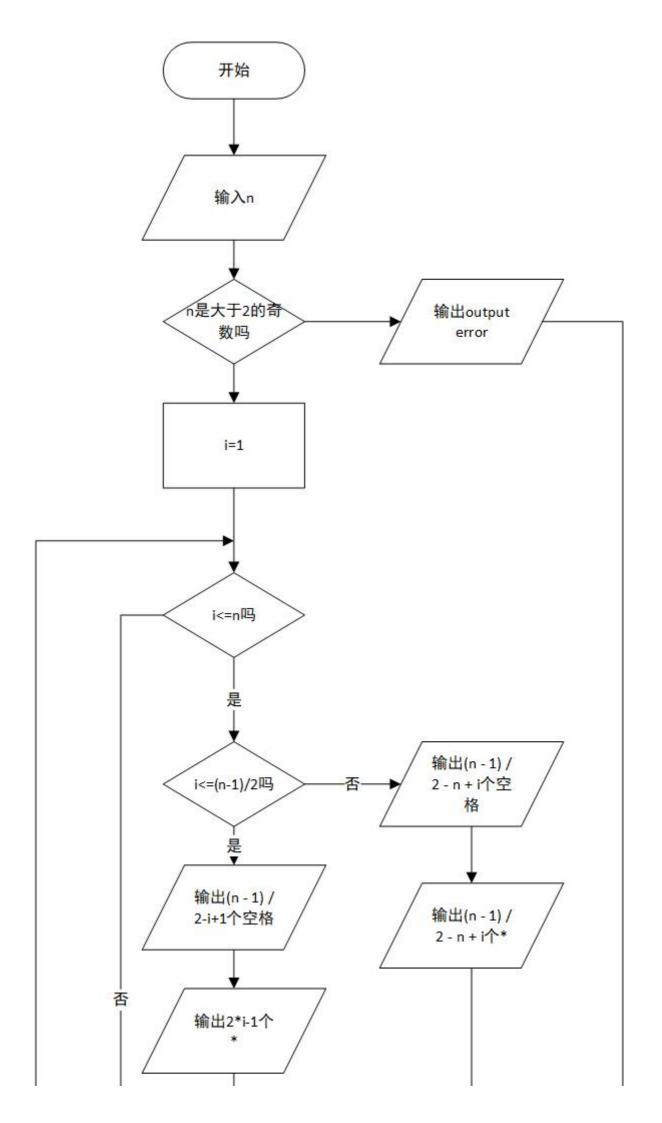
11	1	L3
17		
29	3	31
41	4	13
59	6	51
71	7	73
10	1	103
10	7	109
13	7	139
14	9	151
17	9	181
19	1	193
19	7	199

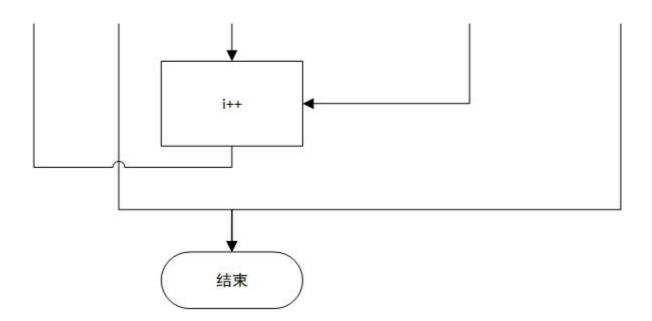


## 第二题

```
#include <stdio.h>
#include <stdlib.h>
#pragma warning(disable:4996)
int main() {
```

```
5
         int n;
        printf("input n:");
 6
 7
         scanf("%d", &n);
         printf("output:\n");
 8
        if (n > 2 && n % 2 != 0) {
 9
             for (int i = 1; i <= n; i++) {
10
                  if (i <= (n - 1) / 2) {
11
12
                      for (int j = 1; j \leftarrow (n - 1) / 2-i+1; j++) {
                           printf(" ");
13
14
                      }
                      for (int j = 1; j \leftarrow 2*i-1; j++) {
15
                          printf("*");
16
17
                      }
                      printf("\n");
18
19
                 }
20
                 else {
21
                      for (int j = 1; j \leftarrow (n - 1) / 2 - n + i; j++) {
                          printf(" ");
22
23
                      }
24
                      for (int j = 1; j \leftarrow 2*(n-i+1)-1; j++) {
25
                           printf("*");
26
                      }
27
                      printf("\n");
28
                 }
29
             }
         }else{
30
             printf("Input Error");
31
32
         }
         return 0;
33
34
    }
35
```





## 第三题

```
#include <stdio.h>
   #include <math.h>
2
   #include <stdlib.h>
    #pragma warning(disable:4996)
4
    bool isprime(int a);
    int main() {
6
7
        int n;
        scanf("%d", &n);
8
9
        if (n >= 4 \&\& n \% 2 == 0) {
            for (int i = 2; i <= n; i++) {
10
                 if (isprime(i) && isprime(n - i)) {
11
                     printf("%d = %d + %d", n, i, n - i);
12
                     break;
13
14
                 }
15
            }
16
        else printf("Input Error");
17
18
        return 0;
19
20
    bool isprime(int a) {
        for (int i = 2; i \leftarrow sqrt(a); i++) {
21
22
            if (a % i == 0)return false;
23
24
        return true;
25
26
```

