

Homework04 41047025 王重鈞

4.1 K

Input n, and n should be an odd number. If n is a even number or exceed range 1-100, the program will print "Wrong Input!" as warning and terminate the program. If input accept, the program will print "k" with n layers.

4.2 Tower of Hanoi

Input n, n should be 2-20. If not, the program will print "Wrong Input!" as warning and terminate the program. If input accept, the program will print hanoi tower best answer.

4.3 Triangle

It can be linker with triangle.c. Using "make" command can be attached automatically. Besides, triangle.c can be use following function.

```
int set_1_point( double x, double y);
int set_2_point( double x, double y);
int set_3_point( double x, double y);
int check( void );
double get_perimeter( void );
double get_area( void );
double get_1_degree( void );
double get_2_degree( void );
double get_3_degree( void );
double get_inscribed_center_x( void );
double get_inscribed_center_y( void );
double get_inscribed_center_area( void );
double get_circumscribed_center_x( void );
double get_circumscribed_center_y( void );
double get_circumscribed_center_area( void );
```

4.4 Equivalent Resistance

Input resistance and n, the program will calculate the equivalent resistance by the formula. If the input is invalid, the program will print "Wrong Input!" as warning and terminate the program.