

```
1 #ifndef STRUCT
2 #define STRUCT
3
4 struct Rectangle
5 {
6     double width;
7     double length;
8
9     double perimeter;
10    double area;
11 };
12
13 struct Square
14 {
15     double length;
16
17     double perimeter;
18     double area;
19 };
20
21 struct Circle
22 {
23     double radius;
24     double circumference;
25
26     double area;
27 };
28
29 struct Cuboid
30 {
31     double width;
32     double length;
33     double height;
34
35     double area;
36     double volume;
37 };
38
39 struct Cube
40 {
41     double length;
42
43     double area;
44     double volume;
45 };
46
47 struct Sphere
48 {
49     double radius;
50
51     double area;
52     double volume;
53 };
54
55 struct Cone
56 {
57     double radius;
58     double height;
59
60     double area;
61     double volume;
62 };
63
64 struct History
65 {
66     int count[7];
67     struct Rectangle rectangles[10];
68     struct Square squares[10];
69     struct Circle circles[10];
70     struct Cuboid cuboids[10];
71     struct Cube cubes[10];
72     struct Sphere spheres[10];
73     struct Cone cones[10];
74 };
75
76 #endif
```