```
1 #include "Shapes.h"
2 #include <cmath>
3
4 # define PI 3.1415926
5
6
7
RECTANGLE
  10
11
12 Rectangle::Rectangle(double x, double y) {
13
     h = x;
14
     b = y;
15 }
16 double Rectangle::area()
                      { return (b * h); }
17 double Rectangle::perimeter() { return (2 * b + 2 * h); }
                     { return h; }
18 double Rectangle::height()
19 double Rectangle::width()
                      { return b; }
20 void Rectangle::rotate() {
     double x;
21
22
     x = b;
23
     b = h;
24
     h = x;
25 }
26
27
28
30 //
                 SOUARE
32
33 Square::Square(double x) : Rectangle(x, x) { }
34
35
36
CIRCLE
40
41 Circle::Circle(double x) { r = x; }
42 double Circle::area()
                    { return (r * r * PI); }
43 double Circle::perimeter() { return (2 * PI * r); }
44 double Circle::height()
                   { return (2 * r); }
45 double Circle::width()
                    { return (2 * r); }
```