

Exeriment 3.1

①

```
#include <stdio.h>
```

```
int main() {
```

```
float side1, side2, side3;
```

```
printf("Enter the lengths of the three sides
```

```
scanf("%f %f %f", &side1, &side2, &side3);
```

```
if (side1 + side2 > side3 && side1 + side3 > side2
```

```
&& side2 + side3 > side1) {
```

```
printf("The triangle is valid\n");
```

```
if (side1 == side2 && side2 == side3) {
```

```
printf("The triangle is equilateral\n");
```

```
else if (side1 == side2 || side2 == side3) {
```

```
printf("The triangle is isosceles\n");
```

```
} else { printf("The triangle is scalene\n");
```

```
}
```

```
else {
```

```
printf("The triangle is not valid\n");
```

