□□□□

□□□

2.1 if □□

□□□

```
if (□□□□□) {
    // □□□□□□□□□□□
}
```

□□□

```
int score = 85;
if (score >= 60) {
    cout << "□□" << endl;
}
```

2.2 if-else □□

□□□

```
if (□□□□□) {
    // □□□□
} else {
    // □□□□
}
```

□□□

```
int num = 7;
if (num % 2 == 0) {
    cout << num << " □□□" << endl;
} else {
    cout << num << " □□□" << endl;
}
```

2.3 if-else if-else □□□

□□□

```
if (□□1) {
    // □□1□□
} else if (□□2) {
    // □□2□□
} else if (□□3) {
    // □□3□□
} else {
    // □□□□□□
}
```

□□□□□□□□□□□

```
int score = 85;
if (score >= 90) {
    cout << "□□" << endl;
} else if (score >= 80) {
    cout << "□□" << endl;
} else if (score >= 60) {
    cout << "□□" << endl;
} else {
    cout << "□□□" << endl;
}
```

> □□
> □□□□□□□□□□□□

```
} else {
    if (b >= c) {
        cout << "□□□□ " << b << endl;
    } else {
        cout << "□□□□ " << c << endl;
    }
}
```

> □□ **else** □□ □ `else` □□□□□□□□□□□□□□□□ `if` □□□□□□□□□□□□□□ `{}` □□□□□□□□□□□□□□□□

2.5 switch □□

`switch` □□□□□□□□□□□□□□□□□ □□□□□□ □□□□□

□□□

```
switch (□□□) {
    case □□1:
        // □□
        break;
    case □□2:
        // □□
        break;
    default:
        // □□□□
        break;
}
```

□□□□□□□□□□□□□□

```
int day = 3;
switch (day) {
    case 1: cout << "□□□" << endl; break;
    case 2: cout << "□□□" << endl; break;
    case 3: cout << "□□□" << endl; break;
    case 4: cout << "□□□" << endl; break;
    case 5: cout << "□□□" << endl; break;
```

```
    case 6: cout << "□□□" << endl; break;
    case 7: cout << "□□□" << endl; break;
    default: cout << "□□□□" << endl; break;
}
```

switch □□□□

- `switch` □□□□□□□□□□□ `int`□ `char`□ `enum` □□□□□□□□□□□

□□	if / else if	switch
□□□□	□□□□□□□□□□□	□□ /□□□□□□□
□□□	□□□□□□□□□□□	□□□□□□□□□
□□□	□□□□□□	□□□□□□□□□
□□□□	□	□□□ `break` □□□

□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□ C++ □□□□□□□□ `for` □ `while` □ `do-while` □

3.1 for □□

□□ □□□□□□□ □□□□

□□□

```
for (□□□; □□□□; □□□□) {
    // □□□
}
```

□□□□□□□□ → □□□□ → □□□□□ → □□□□ → □□□□□ ……

□□□□ 1 □ 100 □□□□

```
int sum = 0;
for (int i = 1; i <= 100; i++) {
    sum += i;
}
cout << "1+2+...+100 = " << sum << endl;  // 5050
```

3.2 while □□

□□ □□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□

□□□

```
while (□□□□) {
    // □□□
}
```

□□□□□□□□□□□□□□□□□□□□

```
int n = 12345;
int sum = 0;
while (n > 0) {
    sum += n % 10;   // □□□
    n /= 10;         // □□□□
}
cout << "□□□□□□" << sum << endl;  // 15

3.3 do-while □□

□□□□□□□□□□□□□□□□□□**□□□□□□□□□□□□□□□□□□□□□□□□□□□□**

□□□

```cpp
do {
    // □□□
} while (□□□□□);   // □□□□□□□□□
```

□□□□□□□□□□□□□□□□□□

```
int input;
do {
    cout << "□□□□□□□□□□□□";
    cin >> input;
} while (input <= 0);
cout << "□□□□□□□□" << input << endl;
```

3.4 □□ for □□□ C++11□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□

```
int arr[] = {1, 2, 3, 4, 5};
for (int x : arr) {
```
```

```
    cout << x << " ";
}
// □□□1 2 3 4 5
```

□□□□□□□□□□□□□□□□ &□

```
for (int &x : arr) {
    x *= 2;   // □□□□□□□
}
```

3.5 □□□

□□□□□□□□□□□□□□□□

- 用 **switch** 语句时   switch 语句

□□□□□□□□□□   7 □□□□□□

```
for (int i = 1; i <= 100; i++) {
    if (i % 7 == 0) {
        cout << "□□□□□□ 7 □□□□□□" << i << endl;  // 7
        break;   // □□□□□□□□□□
    }
}
```

> `break` □□□□   □□□□   □□□□□□□□□□□□□□□□□□□□□□□□

4.2 continue

□□□□□□□   `continue` □□□□□□□□□□□□□□□□□□□□□□□□

□□□□□   1~10 □□□□□□

```
for (int i = 1; i <= 10; i++) {
    if (i % 2 == 0) {
        continue;   // □□□□
    }
    cout << i << " ";
}
// □□□1 3 5 7 9
```

4.3 goto

□□□□□□□□□□□□□□□□□□□□   □□ **C++** □□□□□□□□
□□□

□□□

```
goto □□;
...
□□:
    // □□
```

□□□

```
for (int i = 0; i < 10; i++) {
    for (int j = 0; j < 10; j++) {
        if (i * j == 12) {
            cout << "□□: i=" << i << ", j=" << j << endl;
            goto end;   // □□□□□□□□□
        }
    }
}
end:
    cout << "□□□□" << endl;
```

4.4 return

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ `main` □□□□□ `return 0;` □□□□□□□□□□

```
int add(int a, int b) {
    return a + b;   // □□□□□□□□□□□
}
```

□□□□□

□□ 1□□□□□□□

```
#include <iostream>
using namespace std;

int main() {
    int n;
    cin >> n;
    bool isPrime = (n > 1);
    for (int i = 2; i * i <= n; i++) {
        if (n % i == 0) {
            isPrime = false;
```

```
            break;
        }
    }
    cout << n << (isPrime ? " □□□" : " □□□□") << endl;
    return 0;
}
```

□□ 2□□□□□□□□ switch + □□□

```
#include <iostream>
using namespace std;

int main() {
    int choice;
    do {
        cout << "\n=== □□ ===" << endl;
        cout << "1. □□□" << endl;
        cout << "2. □□□□" << endl;
        cout << "0. □□" << endl;
        cout << "□□□□□";
        cin >> choice;

        switch (choice) {
            case 1: cout << "□□□□□□□□ C++□" << endl; break;
            case 2: cout << "□□ 1.0" << endl; break;
            case 0: cout << "□□□" << endl; break;
            default: cout << "□□□□□□□□□□□□" << endl; break;
        }
    } while (choice != 0);
    return 0;
}
```

□□□□□□□□□□

1. □□□□□ □ C++ □ `0` □□□□ `0` □□□□□□□□□□□□□ `==`□□□□□□□□ `=`□
2. □□□□□ □□□□□□ `==` □□□□ `float`/`double` □□□□□□□□□□□□□□□□□□□□□□□□□□□□ `fabs(a - b) < 1e-6`□

3. □□□□□ □ `while`/`for` □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
4. □□□□□ □□□□□□□□□□□□□□□□□□□□□□□□ `{}`□□□□□□ `else` □□□□□□□□□□□□□□
5. **switch** □□ **break**□□□□□□□□ case □□□□□□□□ `case` □□□□□□ `break`□
6. □□ **goto**□□□□□□□□□□□□□□□ `break`□ `continue`□□□□□□□□□ `goto`□
7. □□□□□□□□ □□ `for (int i = ...)` □□□□□ `i` □□□□□□□□□□□□□□□□□

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□□	□□□	□□
□□□□	—	□□□□□□□□
□□□□	`if` / `else` / `switch`	□□□□□□□□□
□□□□	`for` / `while` / `do-while`	□□□□□□□
□□□□	`break` / `continue` / `goto` / `return	

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