

# Selection

## C Reference

### if / else

An `if` runs a block when a condition 条件 is true. C has no real boolean 布尔值 type by default: 0 is false and any non-zero value is true. Chain choices with `else if` and `else`. Compare with `==`, `!=`, `<`, `>`, `<=`, `>=`.

```
#include <stdio.h>

int main(void) {
    int score = 72;
    if (score >= 90) {
        printf("A\n");
    } else if (score >= 60) {
        printf("Pass\n");
    } else {
        printf("Fail\n");
    }
    return 0;
}
```

### switch

A `switch` picks one case by an integer value. Each case needs a `break` to jump out 跳出—without it, C "falls through" into the next case. `default` runs when nothing matches.

```
#include <stdio.h>

int main(void) {
    int day = 3;
    switch (day) {
        case 1: printf("Mon\n"); break;
        case 2: printf("Tue\n"); break;
        case 3: printf("Wed\n"); break;
        default: printf("Other\n");
    }
    return 0;
}
```