



SWITCH STATEMENT

CONDITIONAL STATEMENT

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TOPIC OUTLINE

`switch` Statement



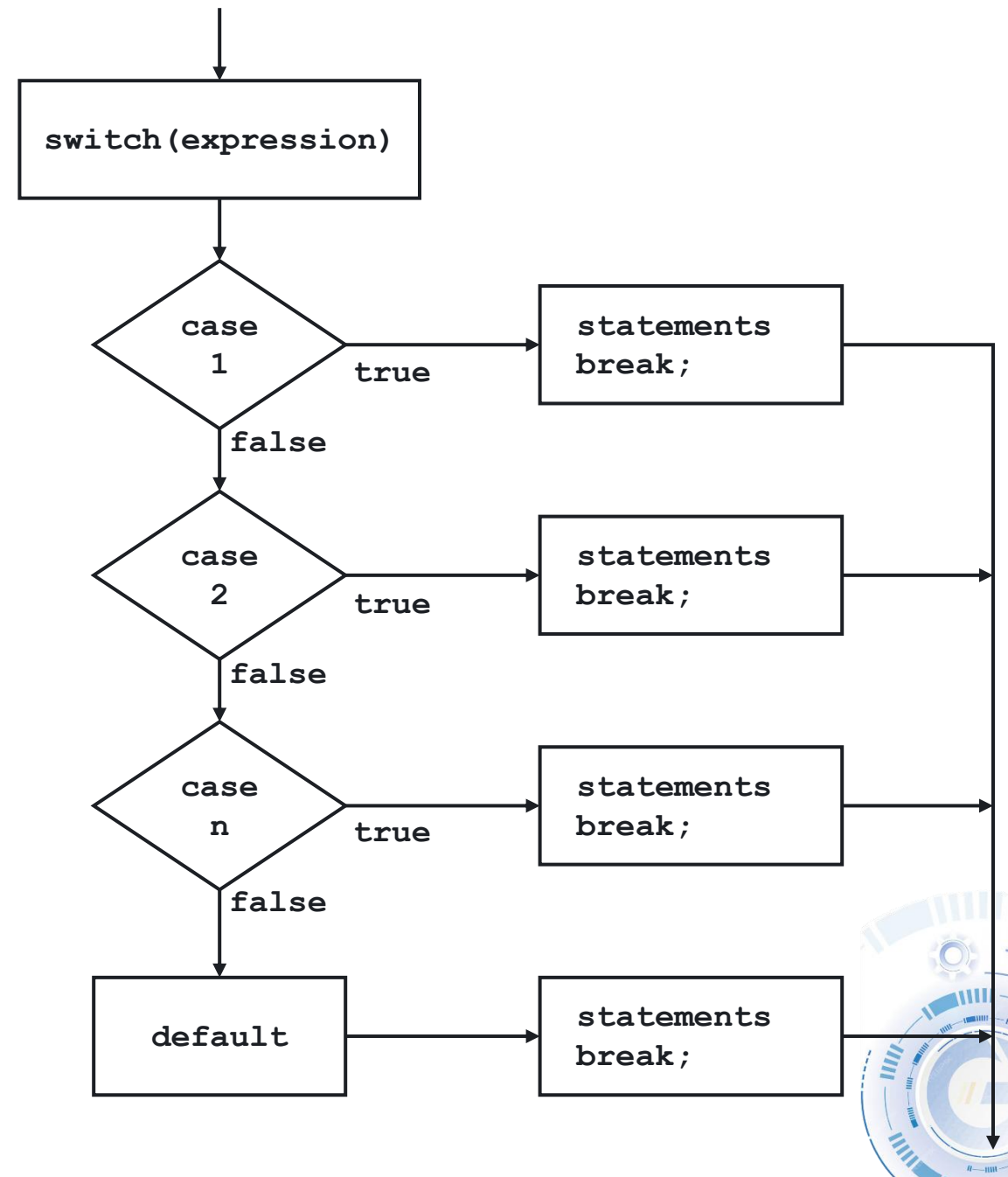
SWITCH STATEMENT



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The switch statement is a control flow statement that allows a variable to be tested for equality against a list of values. Each value is called a case, and the variable being switched on is checked for each case.

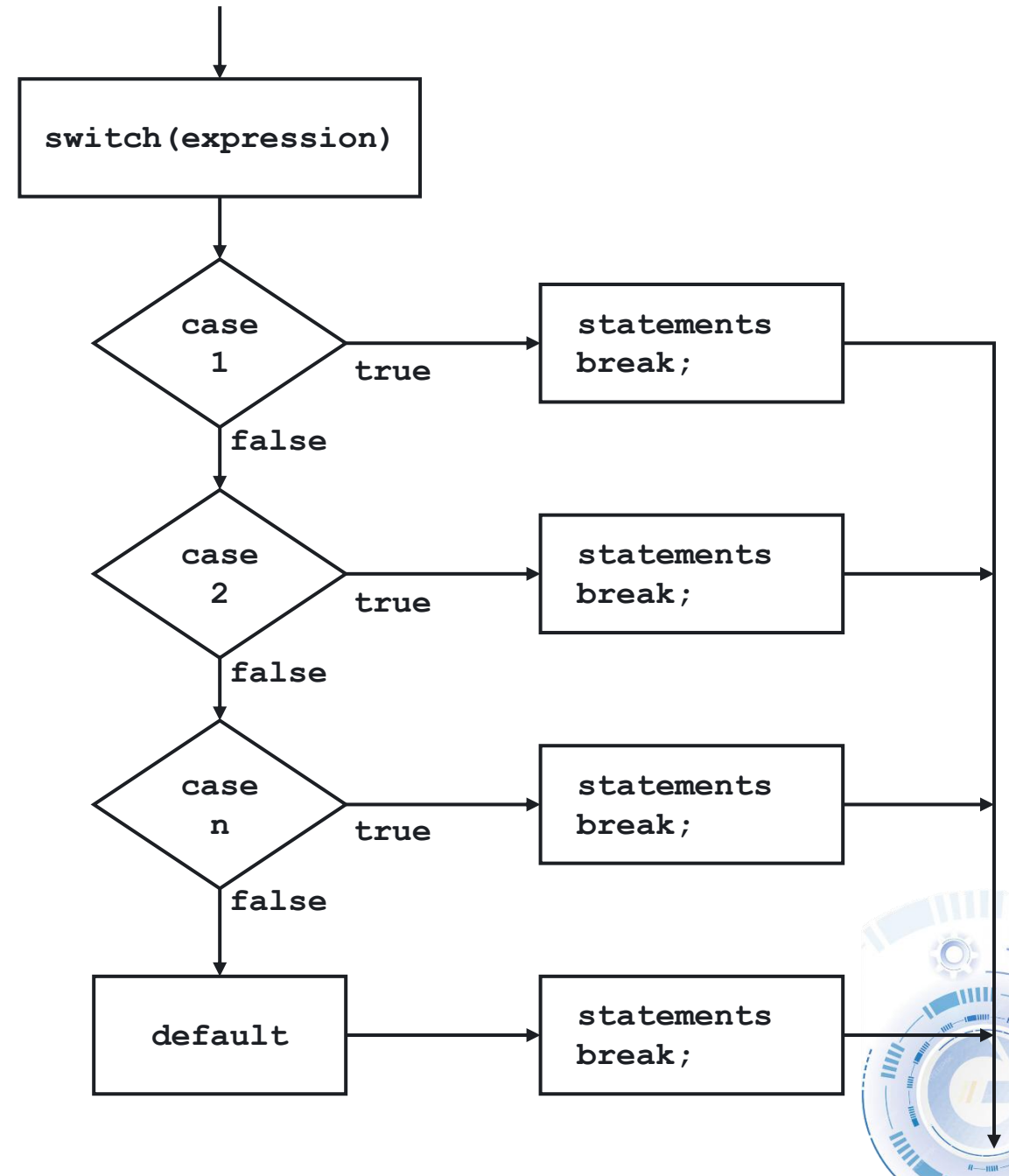
The expression in the switch must evaluate to an integral type (**int**, **char**, **enum**, etc.). Floating-point types (**float**, **double**) and **strings** are not allowed.



SWITCH STATEMENT

Syntax of **switch** statement:

```
switch(expression) {  
    case 1:  
        // statements...  
        break;  
    case 2:  
        // statements...  
        break;  
    ..... more cases  
    default:  
        // else...  
}
```



EXERCISE

```
int day = 2;

if(day == 1){
    cout << "Monday";
} else if(day == 2){
    cout << "Tuesday";
} else if(day == 3){
    cout << "Wednesday";
} else{
    cout << "invalid!";
}
```

```
int day = 2;
switch(day){
    case 1:
        cout << "Monday";
        break;
    case 2:
        cout << "Tuesday";
        break;
    case 3:
        cout << "Wednesday";
        break;
    default:
        cout << "invalid!";
}
```



EXERCISE

```
char grade = 'A';

cin >> grade;

grade = toupper(grade);

switch(grade) {
    case 'A':
        cout << "Excellent";
        break;
    case 'B':
        cout << "Good";
        break;
    case 'C':
        cout << "Average";
        break;
```

```
    case 'D':
        cout << "Below Average";
        break;
    case 'F':
        cout << "Fail";
        break;
    default:
        cout << "invalid!";
}
```



LABORATORY

