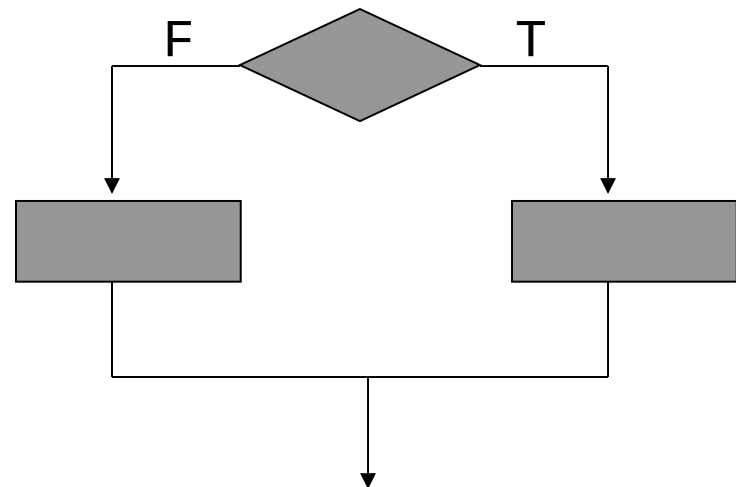
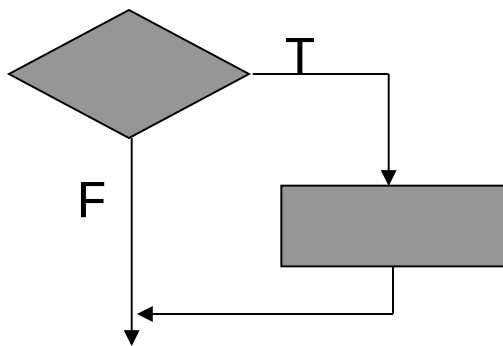


C++ Control Structures

Part II - Case

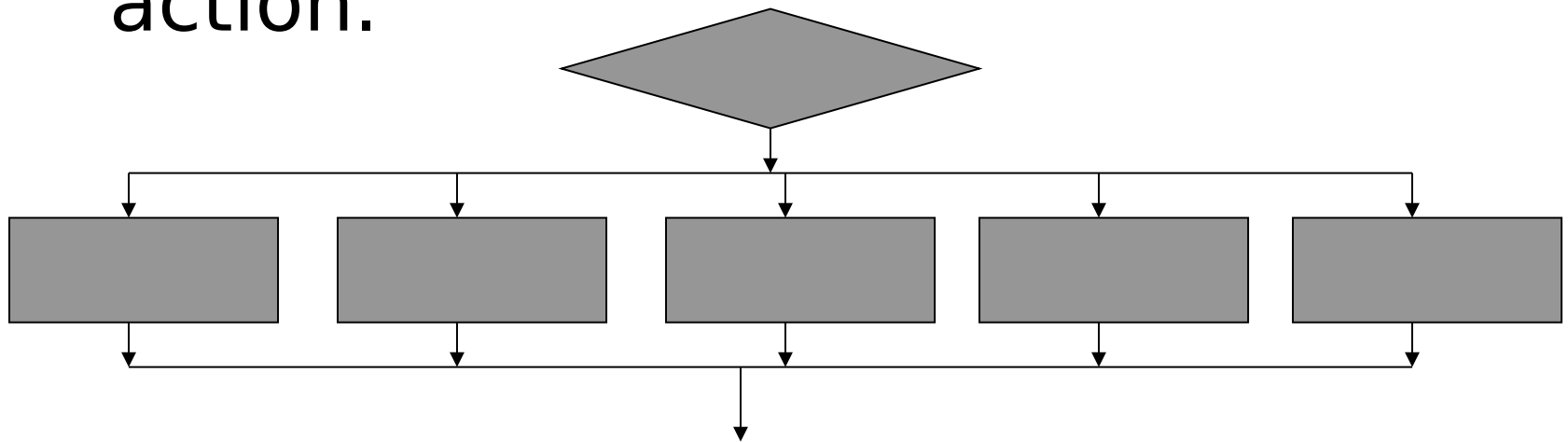
Decision Logic

- An expression is evaluated to true or false. Depending on the value of the expression one of two paths is chosen.



Case Structure

- Based on the value of an expression, a switch statement can choose from several courses of action.



switch statements

```
switch ( integer expression ) {  
    case value1:  
        case actions;  
    break;  
    ...  
    default:  
        default actions;  
}
```

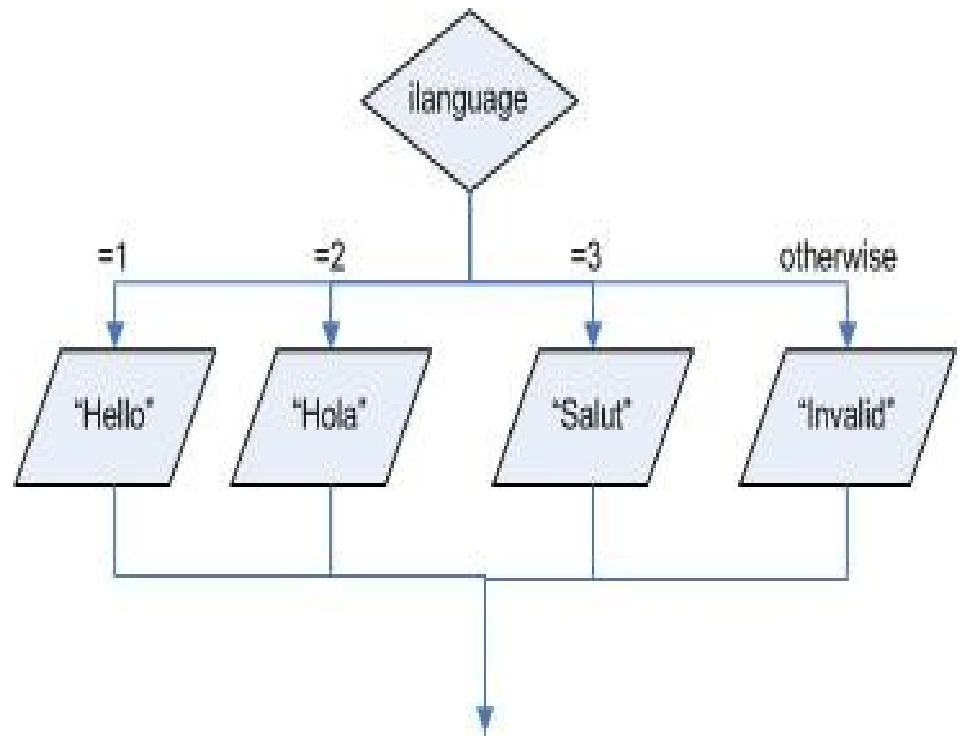
switch statements

- The integer expression can be a character (ASCII value is used)
- When a **break** command is encountered, the current block is exited.
- The **default** case is optional

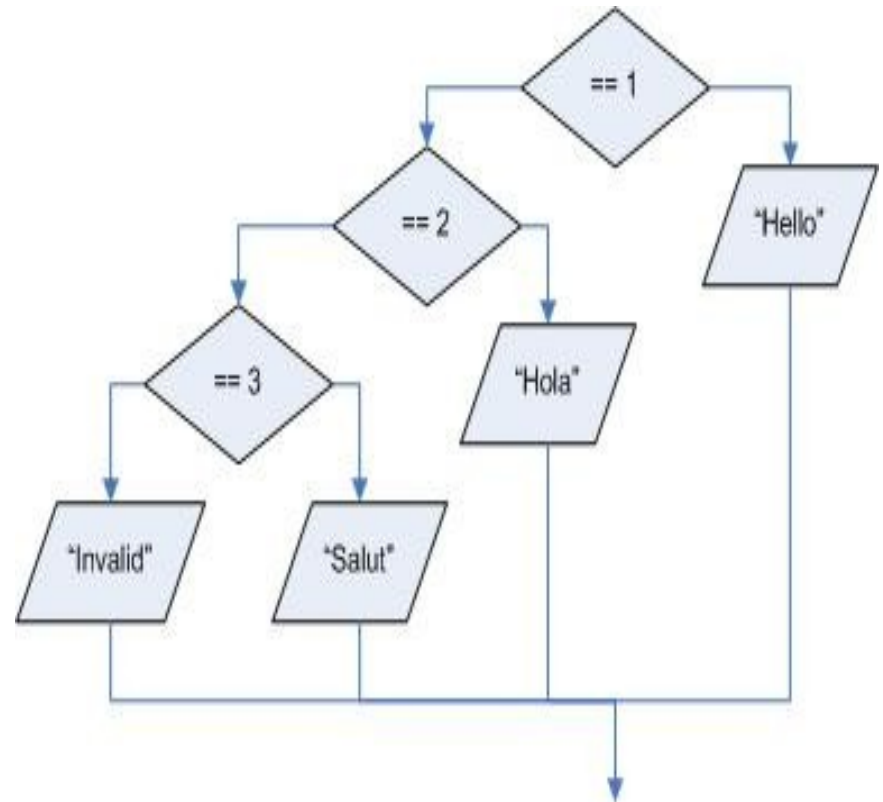
switch statements

- Each case represents a single value (switch statements are not designed to test for ranges of values)
- Good for “menu driven” scenarios
- Any valid command or structure can be placed in any case (decisions, switch statements, loops, etc)

```
switch ( ilanguage ) {  
  case 1:  
    cout << "Hello";  
    break;  
  case 2:  
    cout << "Hola";  
    break;  
  case 3:  
    cout << "Salut";  
    break;  
  default:  
    cout << "Invalid selection";  
}
```



```
if ( ilanguage == 1 )  
    cout << "Hello";  
else  
    if ( ilanguage == 2 )  
        cout << "Hola";  
    else  
        if ( ilanguage == 3 )  
            cout << "Salut";  
        else  
            cout << "Invalid selection";
```




```
switch ( clanguage ) {  
    case 'e':  
    case 'E':  
        cout << "Hello";  
        break;  
    case 's':  
    case 'S':  
        cout << "Hola";  
        break;  
    case 'f':  
    case 'F':  
        cout << "Salut";  
        break;  
    default:  
        cout << "Invalid selection";  
}
```

