Lecture 9

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There are 10 types of people in this world: those who understand binary and those who don't. - Anon Programming is thinking, not typing. - Good Programming

Conditional statements

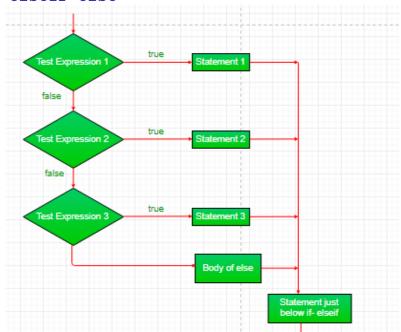
- ▶ if
- ▶ if-else
- ▶ if-elseif-else (./29-ifStatement.cpp)
- switch

if statement

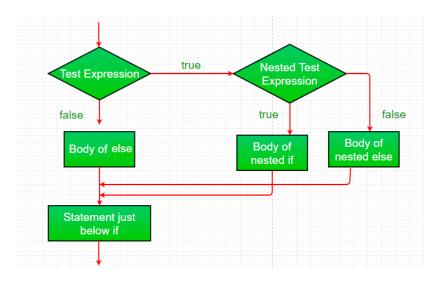
```
if(1 == 2)
   cout << "We are living in an insane world." << endl;
cout << "But we love the world" << endl;</pre>
```

► Works for any boolean datatype

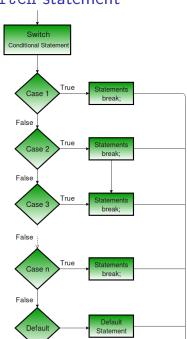
if-elseif-else



Nested if



switch statement



switch statement

- Works for char, int and string
- ▶ Not on bool
- ► No way of giving range of variables
- Faster if large number of conditions exists because of compiler optimisation

Conditional execution

- break statement
 - May be useful to break out of for and while loops
 - ► (./30a-break.cpp)
- continue statement
 - Breaks iterations for which a condition is satisfied

Macros

- ▶ Replaces a string (PI) by another string (3.1415)
- ► Replaces a function also!!!

(./27-hashDefine.cpp)

Better alternative are the inline functions (To be discussed next week.)

Not a number (nan)

▶ isnan() or

▶ a==a

```
cout << 1/0 << endl;
cout << sqrt(-2) << endl;
It can be checked using</pre>
```

String as array of characters

```
char dog[8] = {'a', 'b', 'c', 'd', 'e', ' ', 'f', 'g'};
char cat[8] = {'a', 'b', 'c', 'd', 'e', ' ', 'f', '\0'};
```

All strings end with a null character ($\setminus 0$). Hence, cat is a string and dog is not.