

EECS 2031

Conditional Statements

• Footer Text

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Boolean expressions

- False is 0, anything else is 1

Limits

- The file limits.h provides some constants
- `char CHAR_BIT, CHAR_MIN, CHAR_MAX,`
`SCHAR_MIN, ...`
- `int INT_MIN, INT_MAX, UINT_MAX`
- `long LONG_MIN, ...`
- You can find `FLOAT_MIN, DBL_MIN, ...` in `<float.h>`

Control Flow

- if, while, do while
- The execution of the program depends on some conditions
- Similar to Java

Control Flow

- **if (expression)** ; // null statement
- **statement**
- **else** x=a+b;
- **statement** {
- else is optional
- What is statement? }
- {
- ...
- {
-
- }

Control Flow

- **if (expression)**
- **statement1;**
- **else if (expression)**
- **statement2;**
- **else if (expression)**
- **statement3;**
- **else**
- **statement4;**



else

statement4;

Conditional expressions

- Test? exper-true:expe-false
- $z=(a>b)? a:b$

Switch

- `switch(x) {`
- `case 0 :`
- `break;`
- `case 1 :`
- `break;`
- `}`

Unique cases, no duplication
Switch (expression) not allowed

While

- `while (expression)`
- `statement`
- `do`
- `statement`
- `while(expression)`

For

- `for(i=0, j=3; i<10 && k>2; i++,j--)`
- statement
- `for(;;)`

Break and Continue

- Break – exits the innermost loop
- Continue – skips the current iteration and starts the next one
