

COP 3363

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RECITATION 3

REPETITION IN PROGRAMMING

- ▶ Repetition, along with selection, are foundational to programming
- ▶ Can be implemented naively by simply typing a statement over and over
- ▶ Loops abstract away the need to type statements repeatedly
 - ▶ Cleaner, more readable code

WHILE LOOPS

- ▶ A form of repetition available in many programming languages
- ▶ Format: `WHILE(condition){execute statements}`
- ▶ In C++, 'condition' really means 'evaluates to a non zero value'
 - ▶ This can cause unexpected behavior if you condition is not properly formatted

DO WHILE LOOPS

- ▶ Similar to WHILE loops, except the statements in the loop's block always run at least once
- ▶ Format: `DO{statements}WHILE(condition)`
- ▶ Again, 'condition' really means 'evaluates to a non zero value'