GSET - Programming with Mr. Hill

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Summer 2021

Module 7 - Repetition

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- Repetition and Programming
- Types of Loops
- Repetition and Program Flow
- Nested Structures
- An example in C++

Repetition and Programming

Hove you noticed that you have repeated code in you programs? Is this OK?

- 0
- 2
- **6**
- 4

What can you do to reduce the length and increase the readability of your programs?

Types of Loops

There are different types of loops used for different situtations.

- while loop (entry controlled)
- for loop (entry controlled)
- do while loop (exit controlled)

Repetition and Program Flow

Previously the programs we have written look like a single line. Now, our programs began to flow in a much more complex way...

Nested Structures

Nested Structures

Commonly Used Flowchart Symbols

- Flowline
- Terminal
- Process
- Decision
- Input/Output
- and many more ...

Flowcharting is a tool for brainstorming and it can be used for communication and education. A flowchart is not a program.

An example in C++

An example in C++

A simple for loop

. . .

. . .

An example in C++

A simple while loop

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