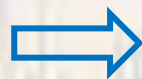# Non-Linear Program Execution - Decisions

Last updated 8/2/23

These slides show program execution flow using decisions

Non-Linear Program Execution - Decisions

- Decisions and Memory - program memory
  - Decisions cause the PC (Program Counter) to be modified (not just incremented)
  - Built into the code by the compiler

```
If(exp){
   …
} else {
   …
}
```

```
If(exp){
   Incr PC normally
   …
   Set PC to end
} else {
   Set PC to else
   …
}
```

Program Memory

Copy of RAM Data section

Read Only - Data

Else

If

T   F

Executing instructions in line

Exception Vectors