

C Programming

Lecture 2

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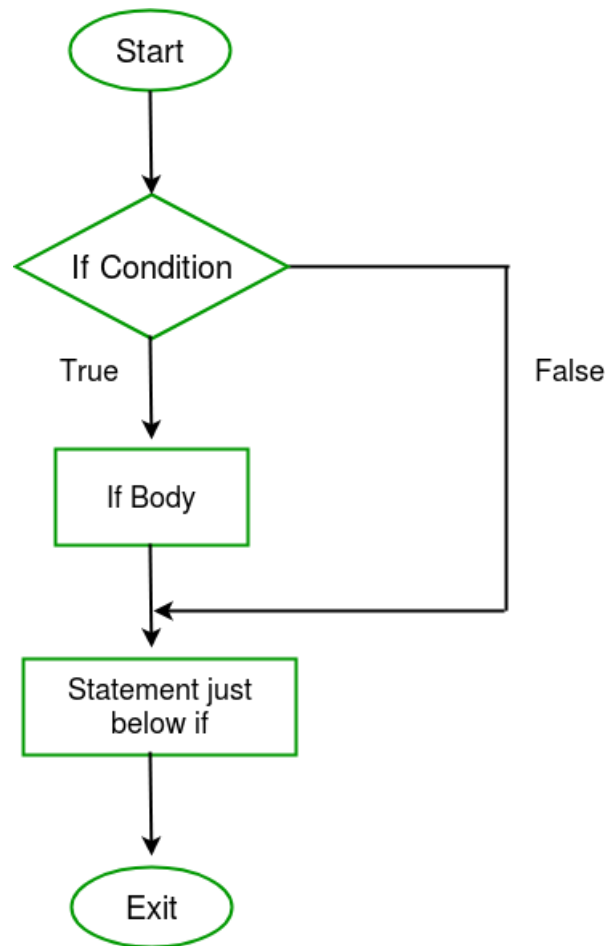
Recap

- C program structure
- Compile and Run C program
- C tokens
- Variables
- Operators
- I/O operations

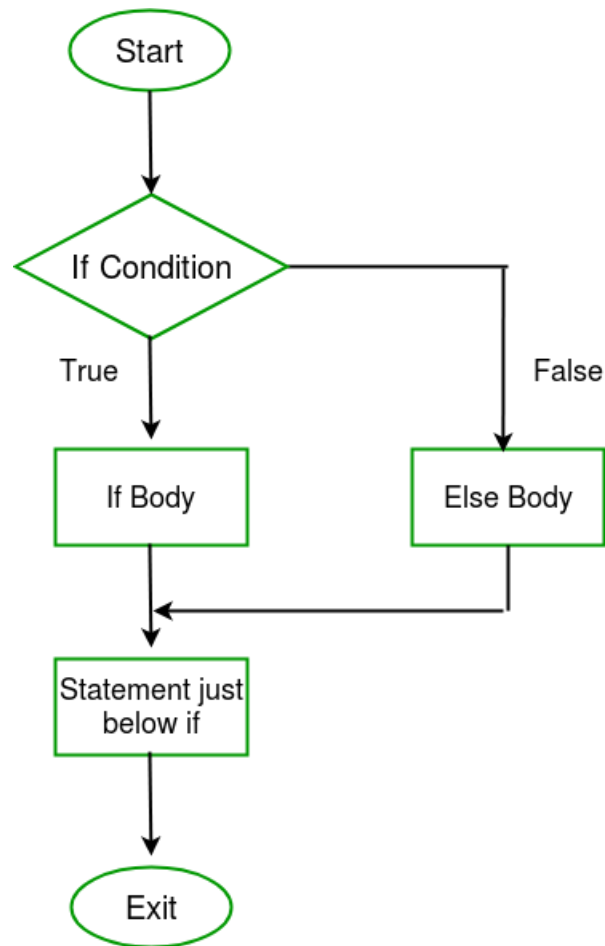
Decision making

- When we want to check some conditions and based on the truth value of the condition block code should be executed, decision making statements are used.
- Types of decision making structures
 1. If statement
 2. If else statement
 3. If else ladder
 4. Nested if statement
 5. Switch case

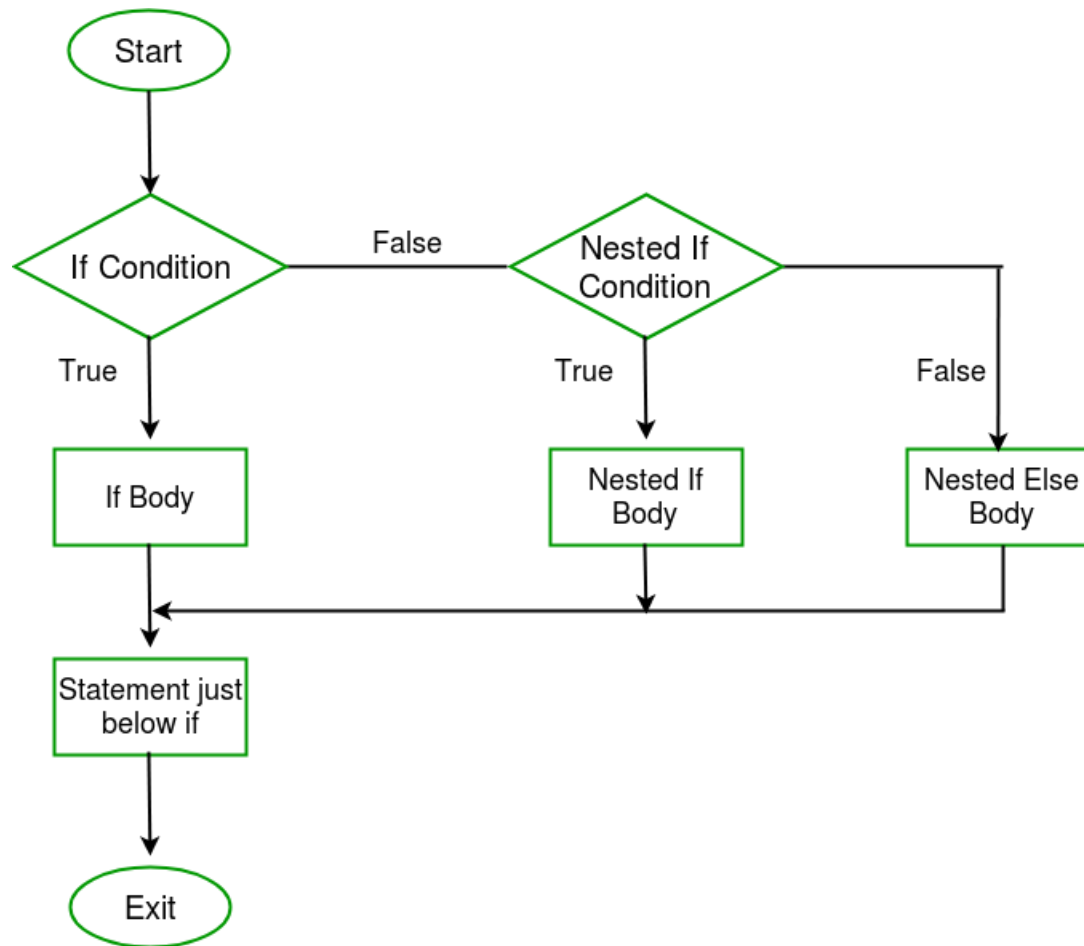
If statement



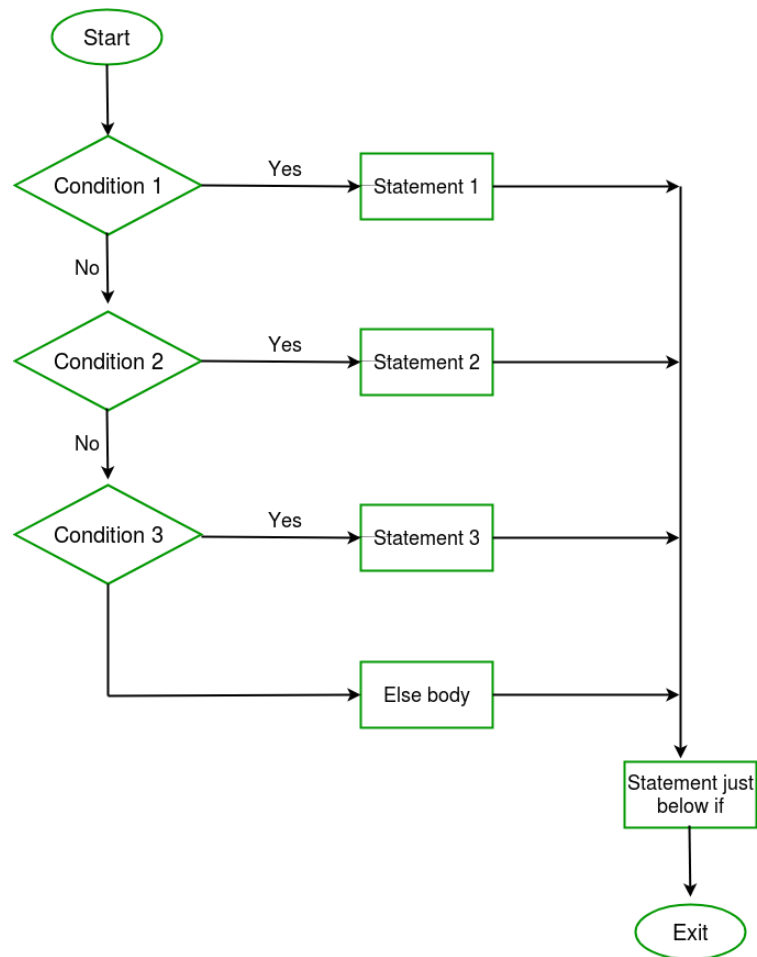
If else



Nested if

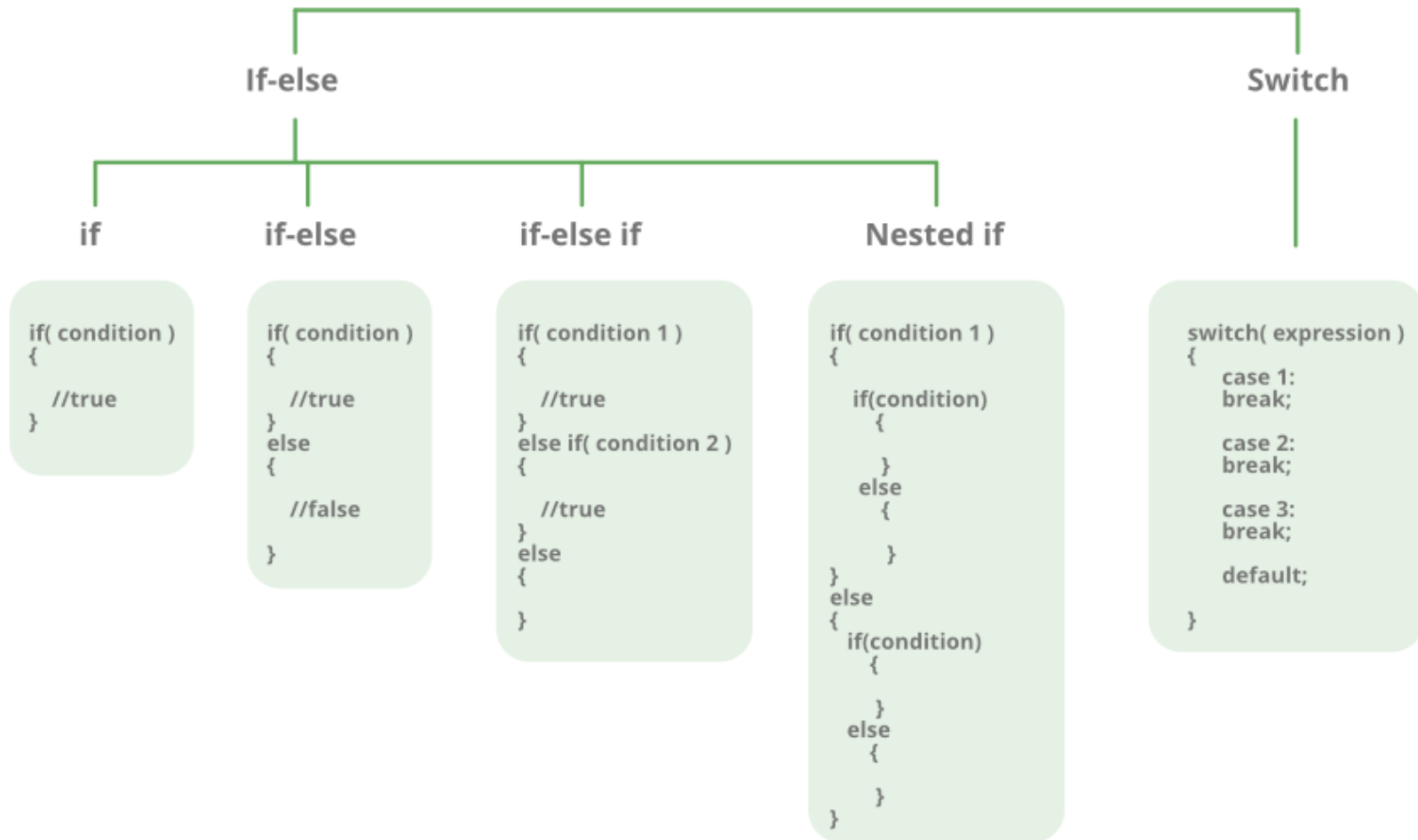


If else ladder



Decision making syntax

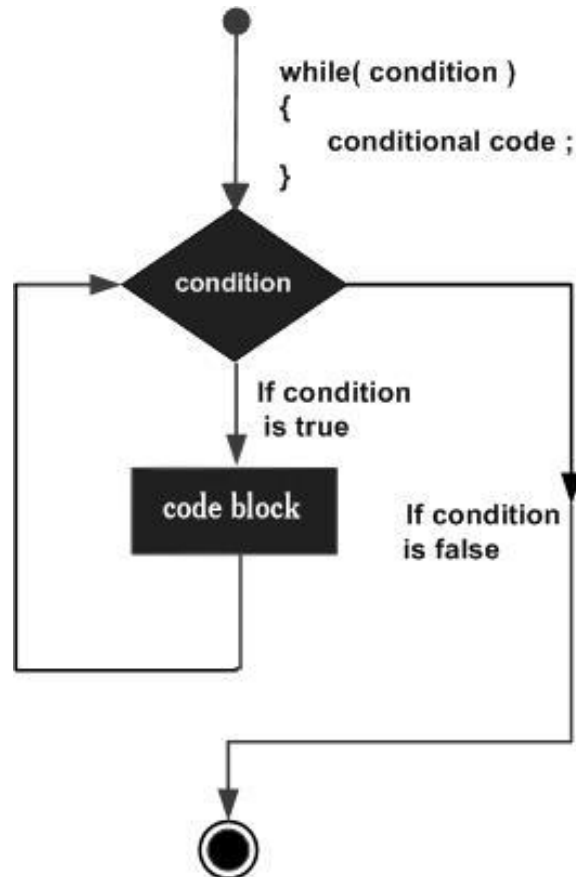
Decision Making



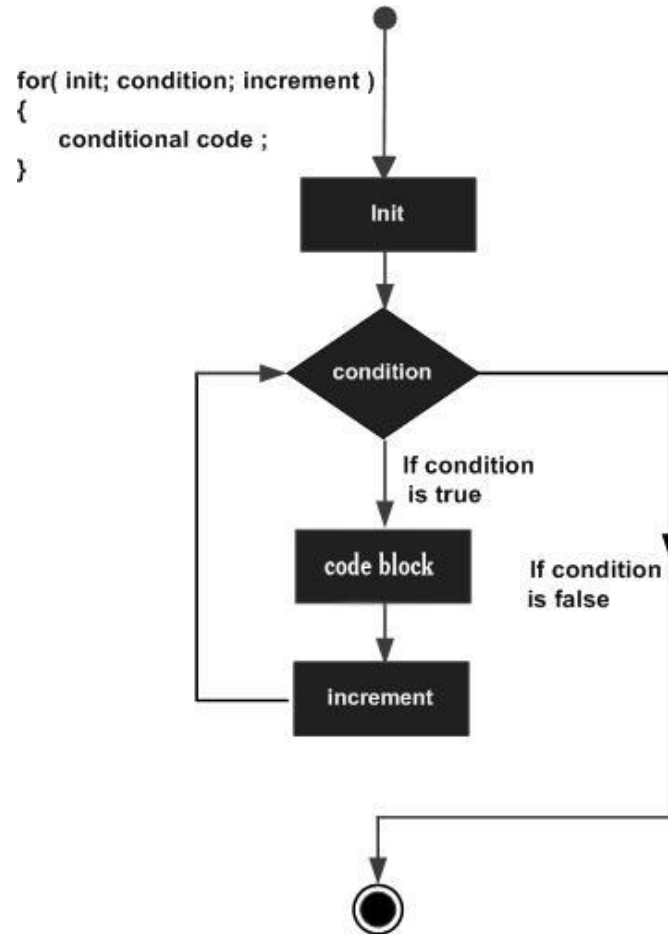
Loops

- When a block of code needs to be executed several number of times, loops are used.
- Types of loops executed:
 1. For loop
 2. Do while loop
 3. While loop

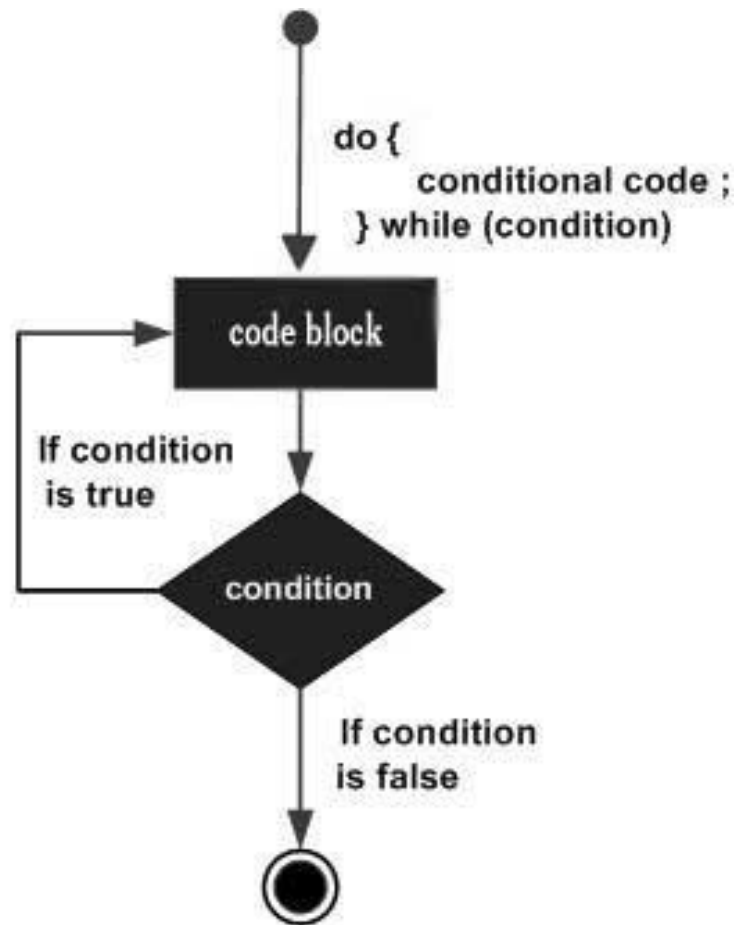
While loop



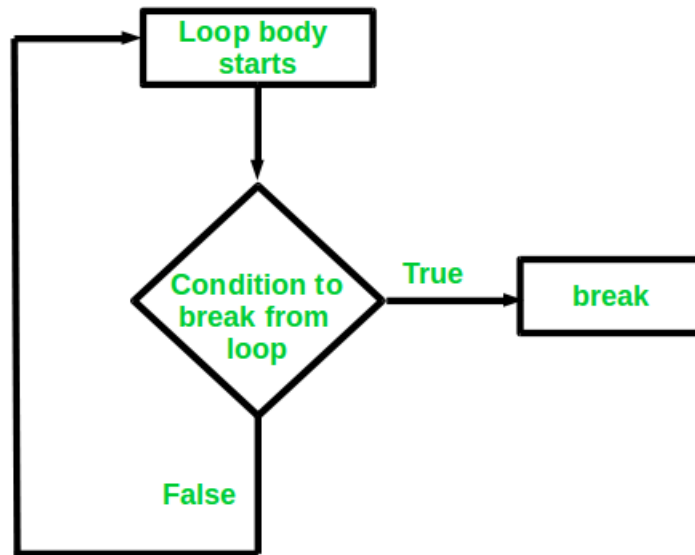
For loop



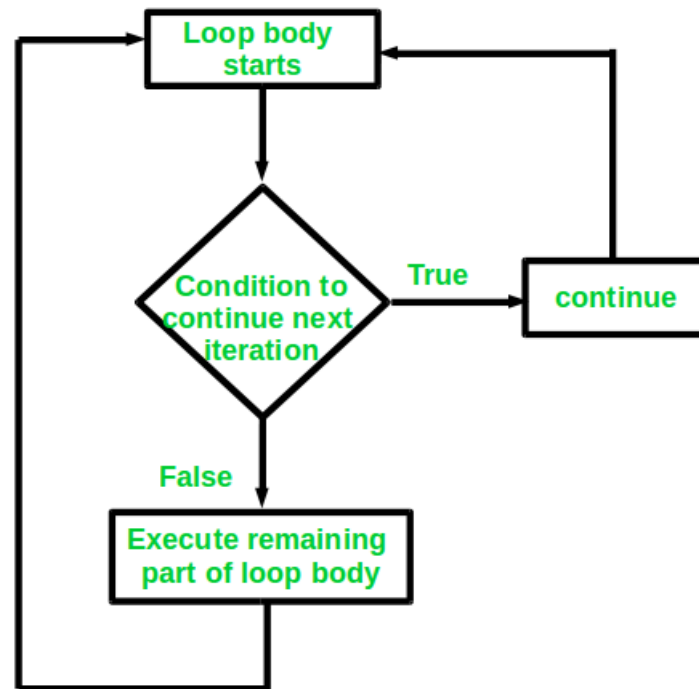
Do while loop



Break statement



Continue



Go to statement

- `#include <stdio.h>`
-
- `// function to check even or not`
- `void checkEvenOrNot(int num)`
- `{`
- `if (num % 2 == 0)`
- `// jump to even`
- `goto even;`
- `else`
- `// jump to odd`
- `goto odd;`
-
- `even:`
- `printf("%d is even", num);`
- `// return if even`
- `return;`
- `odd:`
- `printf("%d is odd", num);`
- `}`
-
- `int main() {`
- `int num = 26;`
- `checkEvenOrNot(num);`
- `return 0;`
- `}`