C Programming Cheat Sheet

Quick Reference Guide

1. Common Syntax

```
• Main Function: int main() { /*...*/ }
```

• Variable Declaration: int a = 10;

Conditional Statement: if (condition) { /...*/ }

• Loop Structure: for (int i = 0; i < n; i++) { /*...*/ }

2. Common stdlib Functions

```
• Print to Console: printf("Hello. World!");
```

- ReadInput: scanf("%d". &variable);
- Memory Allocation: malloc(size_t size);
- Free Memory: free(pointer);

3. Operators

- Arithmetic: + . . * . / . %
- Relational: == . !=. >, <, >=, <=
- Logical: &&. || . !
- Bitwise: &, |, ^, ~, <<, >>

4. Data Types

- Integer: int
- Floating Point: float
- Character. char
- Double Precision double

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