# C Cheat Sheet

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### 1 Hello World

```
#include <stdio.h>
int main(void){
   printf("hello world\n");
   return 0;
}
```

#### 2 Fundamentals

#### 2.1 Variables

## 2.2 I/O

#### 2.2.1 Basic I/O

```
printf("control string", variable1, variable2, ...); scanf("control string", &pointer1, &pointer2, ...);
```

#### 2.2.2 Input using pointers

#### 2.2.3 More I/O

```
/* using printf() and scanf() */
main()
  int x=10;
  float y;
  printf("(1) \ \%d \ n", x);
  printf("(2) %d n", x*5);
  printf("(3) x = ");
  printf("%d", x);
  printf("\n");
  printf("(4)  x = %d n", x);
  printf("input x: "); scanf("%d", &x);
  printf("(5) x = %d n", x);
can input several values of different types
with one scanf command
*/
  printf("input x, y: "); scanf("%d %f", &x, &y);
  printf("(6) x = \%d, y = \%f \setminus n", x, y);
}
```

## Outputs:

- $(1)\ 10$
- (2) 50
- (3) x = 10
- (4) x = 10
- input x: 40
- (5) x = 40
- input x, y: 20 34.5
- (6) x = 20, y = 34.500000
- 2.3 Conditional Operators
- 2.4 Loops
- 2.5 Statements
- 2.6 Notes