Cheatography

C Syntax Cheat Sheet

by Ragna via cheatography.com/122350/cs/22687/

Declaring Variables

`int i;`	Signed integer. 1 bit to determine positive or negative and 31 bits for value.
`unsigned int j;`	Unsigned integer. All 32-bits for values.
`const int k = 10;`	Declare and asign a constant int.
`char c;`	A single byte.

Loop examples

```
for(int i = 0; i < 5; i++) {
  printf("%i ", i);
} // Output 0 1 2 3 4
int j = 5;
while (j--) {
  printf("%i ", j);
} // Output 4 3 2 1 0
```

Array Declaration

`char arr[] = "Hello";`	Char array with string literal.
`char arr[5];`	An array for 5 characters.
`char arr = {'A', 'B', '\0'};`	With an array literal.
`char *arr;`	Declaration of a pointer.

Manipulating an Array

```
char s[] = "Hello";
// Read out one element
char FirstChar = s[0];
// Modify one element
s[1] = 'a';
// Read out each element
int len = strlen(s);
for(int i = 0; i < len; i++) {
  printf("s[%i] = %c\n", i, s[i]);
}
```

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