Course Information

- Cmpe150.01 Lab+PS: Thursday 3-4-5, BM B4
- Zeynep Yirmibeşoğlu

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Lab Content: https://github.com/zeynepyirmibes/cmpe150-

spring20

Student Assistants:

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Course Information

Quizzes each week (%10)

- Midterm 1 (25%) March 31
- Midterm 2 (30%) May 5
- Final (35%)

Important Notices

- Teaching Codes accounts will be sent soon.
- First Quiz next week

Last Week

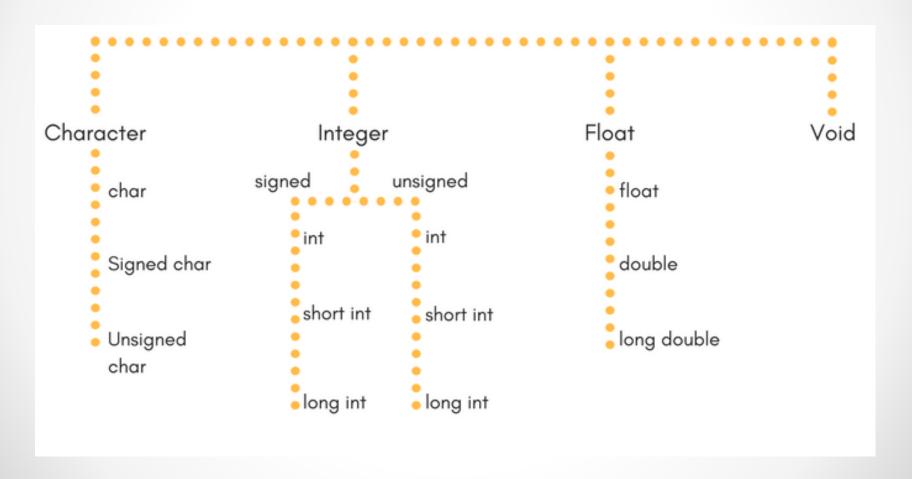
- Introduction to C
- Eclipse & Teaching Codes
- «Hello World»
- printf, scanf

Arithmetic Operators in C

C operation	Arithmetic operator	Algebraic expression	C expression
Addition	+	f+7	f + 7
Subtraction	-	p-c	p - c
Multiplication	*	bm	b * m
Division	/	x/y or $\frac{x}{y}$ or $x \div y$	x / y
Remainder	%	$r \mod s$	r % s

Fig. 2.9 Arithmetic operators.

C Data Types



C Data Types

Data Type	Size (bytes)	Example	Range	Format Specifier
char	1	'a', 'b', '\n'	128 to 127	%c
short/int	2	35, 0, -589	-32,768 to 32,767	%i or %d
long	4	980000, -78977765	-2147483648 to 2147483647	%ld
float	4	-5.6, 78.52, 6.0	3.4 e-38 to 3.4 e+38	%f
double	8	9.888847373 6467757676	1.7 e-308 to 1.7 e+308	%lf

Format Specifiers

```
int x;
char y;
float z;
double t;
```

Format Specifier	Data Type	Example
%d	Decimal Integer	scanf(" <mark>%d</mark> ",&x);
%c	Char	scanf("%c",&y);
%f	Float	scanf("%f",&z);
%lf	Double	scanf("%lf",&t);

Division

Integer division

The remainder (and floating point) is disregarded.

$$5/2 = 2$$

 $10/3 = 3$

Float division

Special Keywords

uto	double	int	struct
reak	else	long	switch
ase	enum	register	typedef
har	extern	return	union
onst	float	short	unsigned
ontinue	for	signed	void
efault	goto	sizeof	volatile
0	if	static	while
	in C99 standard x _Imaginary inline	restrict	

Fig. 2.15 | C's keywords.

• Source: Deitel – C How to Program