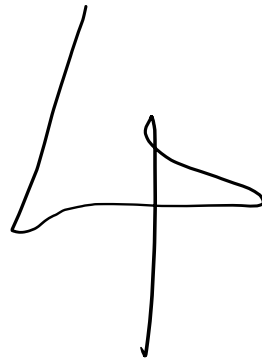


Let's solve it



Constants

Numeric

Character

- -23
 $+7$
- Integer
- decimal
 - Binary
 - Octal

~~FF~~

Real 3.14159
(floating point)

'single'

string
" " ' '

- hexa $\$a3bc4d$
start with $\$$ $\$37$

Backslash character constants

(Escape sequence)

'\n' - new line

'\t' - tab

'\a' - audible alert

'\\' - backward slash itself

'\0' - Null

printf(" \n is used for newline \n");

Which place is closer to
India? A or B

A

California

B

New
York

India

Flatmap
Vs
Round (earth)

DataTypes

~~printf~~("%d", sizeof(char))

Operator

Displays number of bytes allocated to a datatype.

char choice;

printf("%d", sizeof(choice));

int sum; $\overset{\text{Qualifier}}{\longleftrightarrow}$ signed int sum;

hex, -ve, zero | -128 to 127

unsigned int age; | 0 to 255

optimization

signed bit theory
first complement } \Rightarrow 2's
2's complement } complement

Range: n bits

$$- 2^{n-1} \text{ to } 2^{n-1} - 1$$

2 bytes range. $n = 16$

$$- 2^{16-1} \text{ to } 2^{16-1} - 1$$

$$- 32768 \text{ to } 32767$$

$$\left(\begin{array}{l} 2^{15} \Rightarrow 32768 \\ 2^{16} \Rightarrow 65536 \end{array} \right)$$