

FACULTY OF ENGINEERING AND TECHNOLOGY
UNIVERSITY OF LUCKNOW
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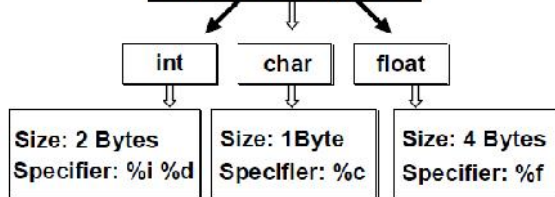


Computer System and Programming in 'C'
CS-101/201

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Fundamental Data Types

C Data Types



1. Character

- Two Types
 - Signed (1 Byte)
 - Range (-128 to +127)
 - specifier (%c)
 - Example: `signed char ch;` or `char ch;`
 - Unsigned (1 Byte)
 - Range (0 to 255)
 - specifier (%c)
 - Example: `unsigned char ch;`

2.1. Integer

- Three Types
 1. int
 - Signed (2 Byte)
 - Range (-32768 to +32767)
 - specifier (%d)
 - Example: `signed int a;` or `int a;`
 - Unsigned (2 Byte)
 - Range (0 to 65535)
 - specifier (%u)
 - Example: `unsigned int a;`

2.2. Integer

- Three Types
 2. short
 - Signed (2 Byte)
 - Range (-32768 to +32767)
 - specifier (%d)
 - Example: `signed short int a;` or `short int a;` or `short a;`
 - Unsigned (2 Byte)
 - Range (0 to 65535)
 - specifier (%u)
 - Example: `unsigned short int a;` or `unsigned short a;`

2.3. Integer

- Three Types
- 3. long
 - Signed (4 Byte)
 - specifier (%ld)
 - Example: `signed long int a;` or `long int a;` or `long a;`
 - Unsigned (4 Byte)
 - specifier (%lu)
 - Example: `unsigned long int a;` or `unsigned long a;`

3. Floating Point

- Two Types
- 1. float (4 Bytes)
 - specifier (%f)
 - Example: `float f;`
- 2.1. double(8 Bytes)
 - specifier (%lf)
 - Example: `double f;`
- 2.2. long double(10 Bytes)
 - ?

Thank You.



BTQ

BTQ: Brain Teaser Question

A doctor gives you three pills and tells you to take one every half an hour. How long will the pills last?

