

First Code:

OC++ Code L> Stacking point Ly int main / void main 4 (d'kowsed further) return type > function name 7 function 1/p -> [function] > 0/p compalsory return of; -> termination Cmay may not Scope of function. @ C++ prog will be rumed by the Operating System Operating - main() -> Executes code -> returno;

System & func Inside main. teus Successfu Execution to Os Pre-Processing-Directive. (that code runned succe without · Print (Keywoord/pbj/method) @ #Produde riostream> It is afile contains Ustro namespace std; Input loutput furt code. Coat & "Asif Nihal"; intrain () cat 4 "Asif Nihal"; -> Cout is used to print ofp SHAIK ASIF NIHAL | April 5, 2025 at 06:50

• The Defination of cout is available in lostream > File contains Input lostput code if It is available in standard namespare (std) folder.

• Why Header file only home # is not ending with j

Ans: Headerfile is not ending with j because It is following

the Syntax ff rules of prag.

-> Input loutput In C++:

Input | Read output | print

Cin cout

Syntax: cout 12

Cin>>

Ex: Cout ZZ 2;

Cout ZZ amohith;

Cout ZZ endl;

cout ZZ endl ZZ endl;

For nextline we use: end; Alternate of endijn" (newline character) Input: (cin >>) syntox The value of Input will be storing in the memory a) The Smallest memory block antaining address refers to bit or byte. Ramosh , 1+1s a Val. name 86its (000001010) Ithes Contains address that can be refeeable. Vaeiable: · Variables are the Containers of storing datavarues Obta Stores in Mem. Block gaddress rehtahai J Usko hoebos yood nai rakh sakte Address to good rathre Ke 1Pye Variable Ose Kaete boi I ab hum Vaeiable Ko uske nam se bula sakte hai instead of (remaded & calling) > Dostatypes:

· The datatype Specifies the size and type of Information in which the

Vallable will Store

Datatype Lint -ve, tve, o chae a,b,-z', A', B', -- Z',
boolean traulfalse void Discussed fuether I froat, double 1.23, 3.1423567

Ex: Int ageOf Aariz = 12;

chae grade = 'A';

12 AgeOf Aariz Hbytes

bool asif = 1 or true float pi= 3.14 f; double b = 4.13;

Variable -> 10 Declaration (No Pritialization)

intage;, float price;

2 Defination

int age = 12; float price = 3.14;

3) Initialization 1 refers to def

3) what is smallest addressable space byte or bit?

Ang in boolean We are using lbyte for representing true or false

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## Size of Datatypes

PataTypes	32-bit PU	64-bit CPU
Chae	1	1
Short	2	2
Pint	4	4
bong	4	8
longlong	8	8
float	4	4
double.	8	8

## -> Naming Conventions of variables

## Rulg:

v It should begin with an alphabet

ex: flood lay float a

There may be morethan one alphabet, but without any spaces

between them

Ex: float age of aari float age of Abari

Digits may be used but only offer alphabet. Ex: int loage yo

V No special symbols can be used except the (3) symbol when multiple worde are needed, an ordercore should seperate them Sneckcook.

Port age-babbae Ex: int age.+ of+ babbae y int atb+c, int are-beds agg-of-asif 1stchae o.c frem 1.c Cornel case: ageOfAnariz 1 1 1 wy oge Of Acariz Lower upp upp L'c 1stance v.c remaining 1.c No keywords or command can be used at a variable name.

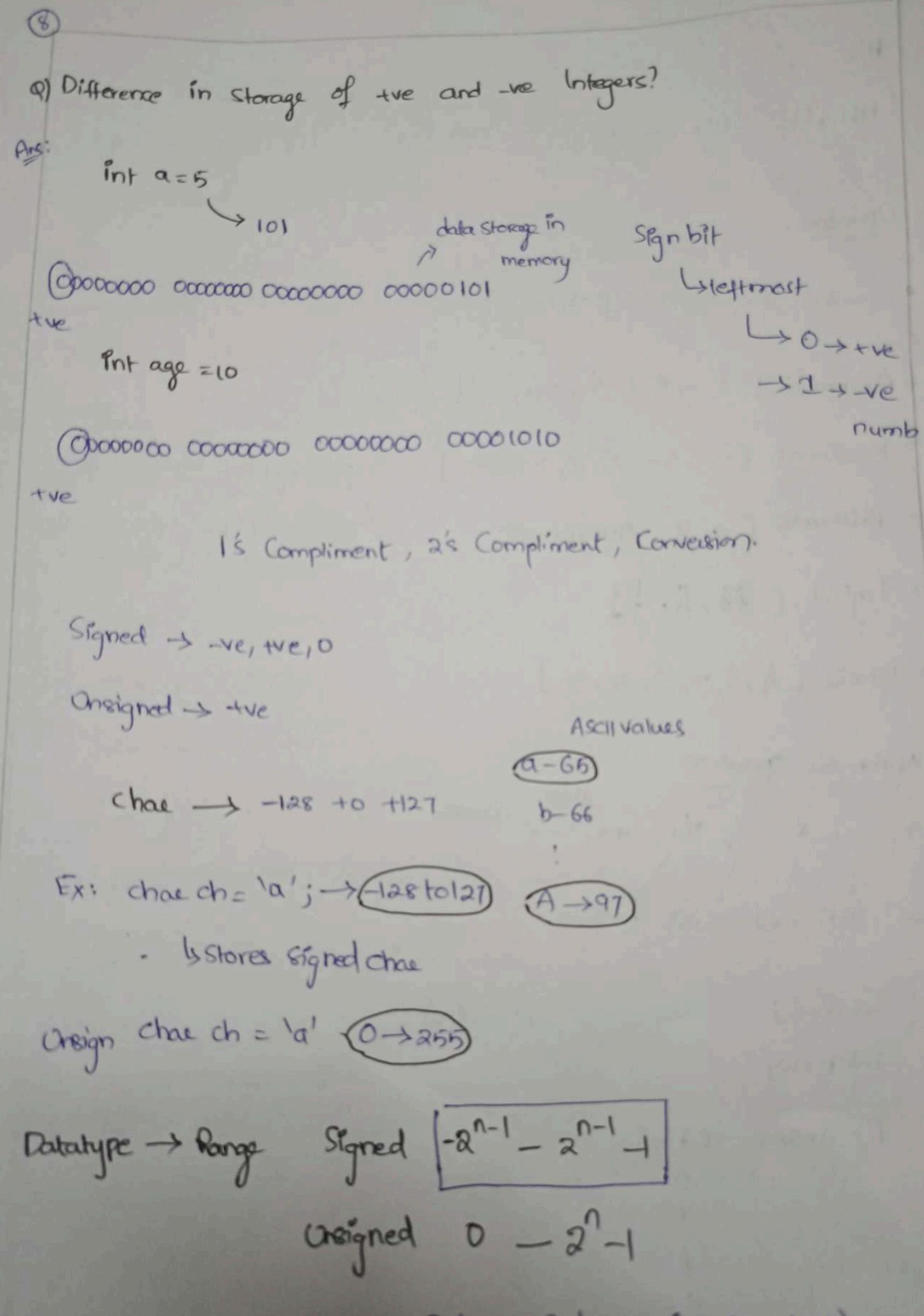
Ex: int main = 5% int cout = 5% V All Statements in C++ language one Case-sensitive. Thus a Vaeiable (in opperase) is considered different from a variable

declaced (in lowerose)

Ex: int love=5; 7 both are different int Love=5;

Hlw: Binaey N.S Jan leaen C++
Decimal N.S

Decimal N.S



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Sot HLL -> written by programmers → H/w: LLL -> Understandable by HLL, LLL CHigh-level larg, low-level larg) machine -> Operators: · Operators are osed to perform operations on variables and values. > Anthometic [+,-,+,1, %,,++,--] -> Relational [==, 'o=, 7, <, 7=, <=] -> companision based operators Result will be true or faire -> Bestherection [ = ] Assignment -> Logical [ ff, 11, -] → Bitwise [4,1,~,1,>), [4] -> Arithmetic Operators: +, -, \*, 1, 0/0, ++, -- Decre add subth mult Divsin modulo Ex: inta=5; Pn+b=10; int answer = a + b;

Coul 4 "ansh ASIF NIHAL April 5, 2025 at 06:52

+ Assignment operators: assigning avalue to a variable. Ex: int a=5
assigned/given -> Relational operator: Compaction (Result will be true I faire) (==, )=,フ, イノフ=ノイ=了 Int a = 10; Int b= 10 j coutse (a == b); Cout << (ab=b); Cour << (a>b); Cout xx (axb); cout xx (a7=b); Cout XX (ax=b); -> Logical Operator: Condr- (IF) as olp 6= Logical NOT 11- Logral OR Af - Logical AND Choth Have) Ucatteast one true) ba