$12345 \Rightarrow 123451...$

Dynamic Memory Allocation unt n;

malloe () free ()

Ad:: cin >>n;

alloectes romons in heap.

alloectes romons in heap.

Ad vi dudi < std lib. h) wit * pi = (int *) malloc (n* signat (int)).

100 N-) free (pi): that was allocated by malloc-* mallor (m) size); vid painter storm an address

can not do can not direference a any fointre and fointre and fointre

if (pi == NULL) }

std: (cout < : failed to albe mai) returns address

return: 0:

fore (pi):

Seturn NULL

creates a Estruct > wer defined Estruct we want to combine soultiple value together that are realisted to int voll No!] Into of a float masks; I student Cach Store. struct Student In Po ?

int soll No; } fields
flock marks;

Struct Student Info 53. 81 · vollNo = 5: COUND 81. marks = 10j -Student Info 32; 82 = 81; if (1) = (2) {

1815 wood using which class cue define a voir defined tupe. det det hiding. encapsulation I data Speration

na pirmed in a pirmed entity => clan

vist rowin () Ex object Class Big Int ? BisInt (1)=10. -> ryg some. wit (j= 10; vaniab) Roder som vonable じーじょう vit main() {
Big Int i; if (i = = 100)c. num = 10. [= (*\0; ? : Brivate member 5-5 * 10-

frost ded public ster 18 d - access Speafrers to dans renembers. clan Big Int [Bublic: int num; vit main () { BigInt i; j. num = 10,

clan Big Int & rember int sum; void set Num (mt o) { < member function num = n; vit get Num C) { return num;

main Z) { Big Int C; $\mathcal{M} \wedge \mathcal{M}$ num is private i. num =10; i. set Num (10); Big Int J= 10;x num is private No m gets called when we create an doject without witializing. Constanctor Constructor that do not take any argument.

clan Big Int ? defaut
gets called when
an stoged of clan is Constructor Big Int () 8 name A constancho is same as name of class. do not Gare octure y de Mot even void Bis Int (int n) & Constructor [sum = n;] -> assignment

Not Big Int (vit n); num (n) the this > sum = n; initialized not subscribed correct way. Bis Int (int on, int m): num (on +m)

int main() {
BisInt R(10,20);

- member function that gets Desto uctos Called when an object i's destroyed (memory is Setting freed). Jet Clan Name destructor never

destructor never receive argument in main() & Big Int (i (10)) MUM Big Int () i = = j} std: cout < " eq"; this d:: 6 d << "neq"; i. Read(); j. work ();

Sperator function a function vomblemented to define behaviour of a built in operator for Sperator > user defined type. seemper function (it implement 0 (an also be a non-ronember) with name on Speador) -> Kir wood

clan Big Int & : Diduct bood operator == (BigInt obj2) } if (Journ == 8652. num) Defuer tone; veturn fulse; void Read () & std: cin >> num;

reig conte () {

Rtg:: cont << num; Cout - Soject A class Ostream i'stopam cin - Stject of dan iostrem LUD tream. h every thing didored all identifiers are declared in global scape in iostoram. A but in a namespace-std.

namespace N1 ? int main() { int a = 10% 11: a=5:) New () { Scope resolution Sperchor N2:: a = 13; name épace N2 8 $\tilde{w} + \alpha = 20$

name space NIA ? vit somma() 8 N1:: a =5; ~ a=10; € namespace N2 ? M1:: N2:: a = 1; wit a=20% mt a=10; 4 int main() } int a= 5; € std: cout << a;

6 4 0 0 sfd: cout << > 5 lobel namespar return o; # in clude < iostorom> add all identifiers
of stal namespace
A slobal scapa Wing namespace std; otel: cont << " -.."

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