```
# Moximal Murch Kurali: En usun atomik birini alusturma.

( toven)

Int man () {

Int x = 10

Int y = 20

Int z = x + + + y

en usun taken ++ we taplama islami

}

**Benzeri bir alay "delbult value" atomosinda yasuydrintaliv.

**The delbult value " atomosinda yasuydr
```

```
> Vasaylon orginan kulanım olanlarındın biri de şu trnekte incelevetiri.
```

```
#include ciotrem>
#include crime>

void process_date(int day = -1, \( \) int mon = -1, int year = -1);  

int main()

clurcist. Fansiyan.  

colorist.  

coloris
```

## \* Referension ve leferens Sementiji:

- -> C'divince gene lde "pointe semantigi" kulian limadadir. Cti'da ise pointer semantigine ek "reQuarre semantigi" ettenmistir.
- -> Foret Assembly obserble parales ve referens consumal fork olysmylor.
- -> C++ do en bosta " operator overlooting." uppmok now referens sementigit kullandi.

```
-> C dilindeli pointerlora C++ otterrotifi olaruk (C dilindeli pointerlora orthe noted / raw pointer digare)

1. referens senontari

2. smart pointer
```

```
Modern C++ (C++ 11) de 3 odet religions semantigi vandro.

L value referance — modern C++ tomosinde referance buydu.
```

Ly le value reforme Ly farvarding (Universal) value reforme

```
* Drenti: Bir referons hangi neeneye booknivea, stope'u tance yolineca and reflore adviront main() {

Int x { 10};

Int y = 56;

Int 8r = x } r, x'e bir referons

(= y; ] > x = y olur. f, y'nin referons olmoe. X'in degen 56 olur.
}
```

> lefarentari instraire ethnek zonnagyz! Butip beforeter Ludiue rollerenatur. Yalnza Ludiue expression sie mitraizz esta.

## \* C Tetrar:

- 1. Expression Cifade): Solutilerin isimlere ve operaturere yaptısı bilesim.
  - => x+10 bir expression
    X+10; bir stotement
  - 2. Dola Type -> Int, double, floor, int \* ... / C++ do ayni

Value Cotegory -> L value expression -> C dilit icin: Bir xbdey odres operatoris operad yappane ve synthe halosi olump R

Climesa L value

adress olumprimana

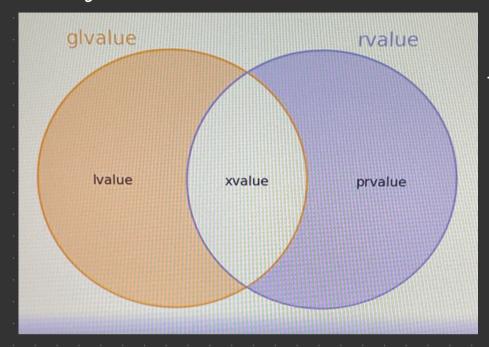
Modern C+1'da 3 adet <u>Primory Value Cotegory</u> vardur.

La PR value (expression) → pure R value

La L value (expression)

La X value → e X pring value

\* Bu Primaryles kulonarek Combined Value Obstaclar.



> L volve U X volve = gl volve

→ C. Diti painter bringsi L pointer to Array);

int a [5]= { 1, 2, 3, 4, 5}

first  $(L^*p) = 8a \rightarrow p$  a dizestation fix elemant

=> C++ religions =>

int (&r) [] = a -> Dizinje referons

auto &r = a; -> Auto rie tupe abdiction

uppank de dizine referons

int a [5]= {1,2,3,4,5}

# Call by volve / call by lobrance:

- -> Releans semantiginin en sik kliandigi yeste den birt, fortelyoniada coll by reference
- -> C dilinde abfault alorek -> coll by volve

→ void finc (Int) → coil by value dur

int moin() {

Int x=10;

finc(x);

> void fine (int \* a)

{

> a = 999; /> C++ da referens | 1e -> (= 999;

}

Int motics;

Int x = 10; | Call by reference

fine ( \*x ); | Oldgo rain, x in degar

```
* C dilinde forbeigenen receigen germoden, coll by volve digestiers. Foliot Ctt'da bu culcium da belenamagis.

Ctt'da: finc(int) -> CBV
finc(int6) -> CBR

Void finc(int*p): Adversi verdigimis nesses digistreliir. -> Benlara (hutotor Finction Denis)

word foo(const int*p): Bu forbishono, nessesin adversini gordeniste, o nesse Digismes)!

sailt okunu hole getrati.
```

```
Not/: Diuptim ki yolnoca okuna yopocot bir
fonksiyon yozicoz. (Construyedan Olmoli, void print-air (Const int "p, size t sixe) gibi
```

```
Not: Int math () \xi

Int x = 10;

Int x = 10;

Bund uplevel \Rightarrow \rho in degramage agging

Const about.

Solver.

Int const \phi = fx

Bund pointer to const. \phi

Const int \phi

Admit, \phi
```

 $\Rightarrow$  Benzeri durum referensiar tain de georgii  $\Rightarrow$  tot const  $e^{-x}$ 

## # C dirinde ADESS DONDULEN Formigonia:

```
adres döndüren bir fonksiyon C'de

a) statik ömürlü bir nesne adresi döndürebilri
a) global değişken adresi
b) static yerel değişken adresi
c) strinng literal

b) dinamik ömürlü nesne adresi

c) Gogranan Alma Adras
```

```
int g = 10;

int g = 10;

pint& func()
{
    //

    return g;
}

int main()
{
    func() = 999;
}
```

exprour.

- => Assembly Direymor fork yok, sementik clarce her. Bunker;
  - 1. Pointerlana ille deger vermele zannola degitiz, Vermenari legal, Fotot reformabab leu minuten degit

2. Pornter algoritari, kendin const obnodigi surece, a depretan, first algoritaries point editoris. Takat referens soutce tok neighbor refer eder. He territories also the territories and the territories are territories and

3. Pointellorin dizisi dobilir. Folot referens diziti yok. Releans lor dizide titulenoz.

- 4. Pointer to pointer vor ama rectionce to reference you.
- 5, Null pornter kourami. Null reference you.
  - >> Null pornter = his bit adverti gosternez ama geaerli bit pornterdir.
    - -> Adres donation forking large, ist baseramorda mulipti doner
    - Arama Conveyuon are tipik olerak ordres obnatrici. Araman bilinanossa null ptr.

