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

(toven)

Fint main () {

Fint x = 10

Fint y = 20

Finc (const char * = " mert")

Fint 2 = x + + + y

en usun taken ++ we topland islami

}

**The constant alustuation alusturma.

**The constant was a part of the characteristic alustuation alusturma.

**The constant alusturma.**

**The constant alusturma.
```

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

```
#include <iostream>
#include <crime>

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

int main()

clinqial, \( \) int \( \) int \( \) int \( \) int mon, int year)

{

std::time_t timer;
 std::time(ktimer);

std::time p = std::localtime(&timer);

if (year == -1) {
    year = p->tm_year + 1900;
    if (mon == -1) {
        mon = p->tm_mon + 1;
        if (day == -1) {
            day = p->tm_mday;
        }
      }
    }

///

//tests

std::cout << day << '-' << mon << '-' << year << '\n';

///

//tests

std::cout << day << '-' << mon << '-' << year << '\n';

//

process_date(3, 5, 1987);
    process_date(3, 5);
    process_date(3);
    process_date(4);
    process_date(4);
    process_date(4);
    process_date(5);
    process_date(6);
    process_date(6)
```

* Referension ve leferens Sementiji:

- -> C'divince gene lide "pointe semantigii" kulian limakladir. Cti'da ise pointer semantigine ek "reQuarre semantigii" etkonnistir.
- -> Fount Assembly obserble parales us referens arosincia fish olusimupos.
- > C++'ab en bosta "Operator overlooting" uppmok now reforms semention kullandi.

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

1. referens senontari

2. smart pointer
```

La Forwarding (Universol) value reforme

```
But referent semants

Int x \( \) 10);

Int * ptr = dv; \( \rightarrow \)

Ptr' de x'in

Odies' i var.

Vari r = x yopmak roin

But duranda (* ptr) = x

de referents

de referents

But referents semants

Int x \( \) 10\( \);

Int x \( \) 10\(
```

```
# Drenti: Bir refeans hangi nesneye bolkanısa, sape'u rance yıtmızın ana referen adır

int main() {

int y = 56;

int 8r = x >> r, x'e bir referens

(= y; ] >> X = y olur. f, y'nin referens olmaz. X'in deger 56 dur.
}
```

> lefamentary instraurze ethnek zonnagyz! Butip beforener Luciue rolleranatur. Yalnza Luciue expression sie mitrauz esta.

* C Tetrar:

- 1. Expression (160de): Solatterin isimlete ve operaturierle yoptigi 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

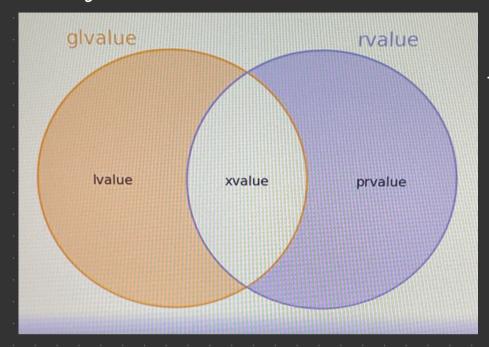
Modern C+1'da 3 adet <u>Primory Value Cotegory</u> vardur.

La PR value (expression) → pure R value

La L value (expression)

La X value → e X pring value

* Bu Primaryles kulonarek. Combined Noke 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 the territories and the territories are territories and the territories are territories and the territories are territories.

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.

