Tema 1.

Пространства от имена (name space). Енумерации, структури и обединения. Видове енумерации и разлики.

Работа с инстанции: Инициализация, достоя до елементите, влагане, работа с функции. Работа с масиви.

Pasmer Ha Obertu/UHCTAHQUU. Mograbhabahe u otmectbahe. Endianness u Moberka 32 big/ little endian.

Trumer coc sagazata sa N Trubsamura

Namespace (Troctration or umeta)

- Ut ctry mett 3a usersate the Kothphuktu

tha umetata

- scope, b kouto uma geoputuratu cumbonu

- ustrons bame > cres using namespace *ns*

> cres otteratora 3a resontoucus ::

3a kothpetet obekt (Tro. us-name :: f(s)

- cres using *stal :: cout* 3a

Kothpetet obekt b uenux scope

(uttal kouc: namespace ns-name &

Cuttarcuc: namespace ns-name ξ void $f() \xi - ... \xi$; int global = 9;

Енумерации. Видове и разлики

1. enum (Tuti U3500et) - Tuti, pectpuktupa + 90 gomen + ot ctoùtoctu, kouto BKHOCBAT CTTEGUAMO geoputupatu Kotciatiu (etymeratoru)

-Всеки енумератор съответства на цяно исло; ако не е указано, то е предния + 1; исло; вият има стойност 0, ако не е дадена исло;

-enum e unscoped

enum $t \in \mathbb{R}$ $a, \rightarrow 0$ $c = 5, \rightarrow 1$ $c = 5, \rightarrow 4$ $e = c + d \rightarrow 9$

- useurbane t:: a

- etymepatopute ca rabbattu prometaubu

enum color { TPOSNEM enum fruit { orange, red };

-UMA UMITAUGUTHO/HEABHO TIPEOFPASYBAHE OT CHYMEPATOP KEM CUCAO

Color c1 = color: orange; animal a1 = animal: cat; if (c1=a1) $\{...\}$

* MOSBONSBA CADBHSBANE HA
HECPABHUHU B GETTBUTENHOCT HELLA, SOTTOBA E
MPENDAZUTENNO USTTON 3 BANCTO
HA ENUM CLASS

2. enum class - scoped enum

enum class color & Hama enum elass fruit &

Orange

3;

He Pasoru

3;

int x = color: orange; > He pasoru, saugoto HAMA HERBHO TIPEO EP 23 Y B2 HE, bu buso BB3 MOHHO CPE3 Kactballe: int x = (int) (color: orange);

Pazmer Ha enum:

enum Test {
a = 0.

B = 12

size of (Test) = size of (int) = 4

enum Test 2: char &

a = 8, b = 80000 He e char sizeol(Test 2) = sizeol(char)=1

Sizeof (enum) = Pazmepot Ha Hau-Mankun Genozuchen Tust gannu, B Konto Morat ga ce nocepat chompocalare Ha engmepatopute

Creykryen (struct)

- Mocregobaterhoct ot Moneta, Kouto ce Maset B

struct Point {
int x;
int y;
}

Point $P \in 3,73$; usu Point $P = \{3,73\}$; $P. \times = 10$; $\Rightarrow gocton go enement/$ $course (*ptr). \times = ptr \Rightarrow \times$

Point * ptr = new Point { 3,4};

delete ptr;

→ Bratate Ha copyroppu - Trumer 32 decoraryus struct Line & Point beg; Point end;

- Tro (KAICTAHTHA) Perperentius

- 470 (KALCTAHTHA) PERPERHYUR > CONST, DKS HE TROMERRIE - 170 (KSHCTAHTEH) YKA SATEN WHOTAHYUUTE

- no kome - 435 er Bame!

MP. Void read (const Points P)

- Macubu ot UHCTAHBUU

struct A & 3;
A arr [10];

AAAAAAAA

CATUSHS

A* ptr = new A [n]; delete [] ptr;

gutdmuzto

- Pasmer Ha UHCTahkuu
- of copyrigpa uma alignment requirement PASAUKATA U/y agrecure Ha 2 coceghu zaen-gantu;
 Tou ce oppegens ot pasmera Ha Haú-ronsmata
 Trumutubha chen-ganha
 - · H TIPUMUTUBHA MEH-GAHHA TPREBA GA E HA AGPEC KPATCH HA PONEMUHATA Ù
- TPASHUTE KALTKA CAEG MOGPABHABAHETO CE HAPUZAT

 padding

 AKO UMA MACHB KATO MOCAEGETI EARMENT HA

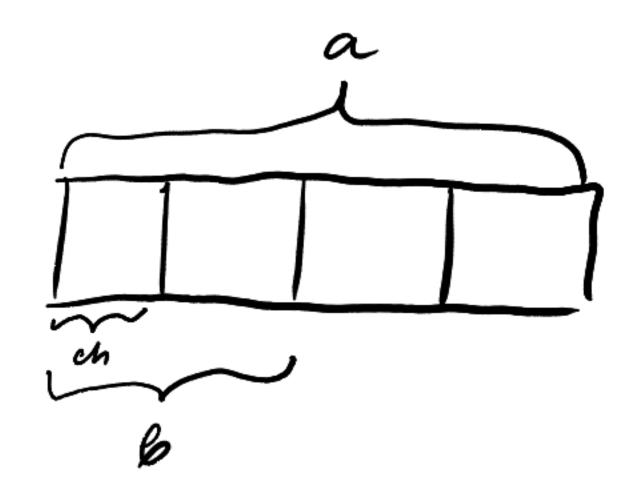
 CAPYKTYPATA MOHRM GA HE MY MOGABAME PAZMEP

 (32 M64BA OCTAHAMTO MICTO)

Obequierus (union)

- Mocregobatentoct ot moreta, kouto chogenst/ 32emat egha u coma Mamet

union Test &
int32-t a;
char ch;
int16-t b;



rest obj;

* Size of (union) = PazmeP6T #a #au-romemus TUTT gammu

→ rees union poorurane Ponusionabusan
→ Tregnashazemu 32 ustronsbame Ha Tormo egno
Tore

Endianness - Hazut Ha Mogpeg Barra Ha Bautobete

- little endian - Hañ-CTAPMUST BAÑT E HAÑ-OTTREZ - big endian - Hañ-CTAPMUST BAÑT E HAÑ-OTSAG TPOBERKA: bool is Little Endian () {

union endianness Test {

uint32-t n = 1;

unsigned char bytes [4];

myTest;

return my Test. bytes [0];