Macubu or ykazaran KEM odek Tu. Move cendriuca-norza, lramo, rvalue 9 Tema more ccinore, std: more Macular or yeazarely Una 3 Harrina Za Vezgabane na nacubu: I cratuzen macub - Compiletime ce penaba nerobus pagnep -bucoro locality => orpzogen vibue -pazuepot my ne monco ga dzyk променян Ulpunep A arr [10]; Il gunanvien macule or oderru (dynamic)
-paque PET my monce ga ce npapiensa - Eucoxo locality Wellete, new)

- TRYGHO ZAMENSHAHE HA ENEMATA
- NON YFOREMSHAHE CE MANAFA TESIZE(),
UZTPUBAHE HA YENUS MACIE N 0639 abane He HOE.

1

Muacul or yxagatern ken obether - MNOSO NECHO Swap-basse na enement. - Mucko locality => dabno nocuegobarento Elite - избягвене на нуходата от def A(), подържа пиверт (празна еленти) Ilpumep: Shapes = new Base \ \[\langle \]

Shapes | \text{Triangle} \]

Wircle Move cellantura Morzn:

Umane ofers, koù TO e Ma kepas Ma clos secuzhen yuktin. Uckane ga ppeneciun plcypoute my lo gpyr Odert u ga ru otkazun ot nacrosyya

evalue:

- pe for pentin Tunde

- une na hponensula, d-yer, odereru

- riponemula, konto duxue no crabina ot 126ata

croana na pobioto

Tralul prvalue - Hennestylon Hu npointen by - Autepann - 73, "ABC", nullett x value - expiring value - OSERTA, KONTO Ca na kpad na Cod suyun JUK 21 Tralue = prvalue + x value; Upunep: f (int & n) Fralme ret £(3); V Unt n=3 f(n); X f (int n)-livalue, rvalue flint & n)-lvalue Alconstinth) - lvalue, rvalue Move CC OTKpaglane Ha garnuse - KONCSPYRSOP 3a Duarpana:

Tpunep: String (String Ad) &
move From (97d: move Cother); void more From (String & 1) ? _data=other_data; other. - data = nullptr, Duarp: String & operator = (string Ad other) 3 if (this! = bother) { free (); move From (Std::move (other)); redurn this; Std: move - n prodpazyba lvalue 666 xvalue Spulle: s1 = " ABC"; String String 52=61/1//cc String s3(Std::move (5.1)) //more (C 54(51) /undefined behaviour

Du3horzlanue na Std: move 656 plying
fraid objit
656 Stope-a na p-ynara object sperupa karo evalue, myo re orben my e nogapeno svalue => g(Std: move(obj));
Karo evalue, muyo re orben my e nogageno rvalue
=> g(Std: move(obj));
<u>Anoexcept</u>
Runtime axo &-yurra throw-He Macronba
Std: terminate
Npunep.
A (Add) noexcept;
At gp= (Add) noexcept;
- uzhonzlor ce za ontulurzayun or kommunatopa

Mystring. h r pragma Hinclude ciostreams Class MyString char _data = nullptr; Size_+ &ize=0) Sizet (Cap = 0) Void copy From (const My Stringh other) Void move From (My String lat other) ince void free(); void resize (unsigned new Size); explicit My String(size + stringLen); public: My String(); My String (const char data); My String (const My Std other); MyStr/MyStr dd/hoexcept; MyStr. & op = (const MyStrd) My Str A OP = (My Str Ad) no except; ~My Str ()? size_t getCap[1 const; size + getSize() const; const dar (_Str() consti

My String & op+= (const My Stod other); Chard operator [](size-t index);

Char operator [](size-t index) const; friend std:: Ostreamk operator < (std:: ostream tos, Const Mystracy);
friemd std::istreamk op>>(Std::istreamk is My Strace) friend My Str opt (const My Strl Phs, const My Strl Phs), Cool operator = = (const MyStrd llis, const Mystrding bool op!=(-11-); bool op < (-11-); God op = (-11-); 600l op> (-11-);

600l op>=(-1/-);

#include My String. 64 My String GPD # pragma warning (disable: 4396) Station with Sighed Tound To Power HTwo (unsigned V) V = V >> 1V = V > 2V/= V>> 4; V/=V>>8; V/= V >> 16; V++jreturn Vi Static ungigned data To Alloca By String Lenlungiqued return Std:max (Non, round To Power O + Tho (Street). Void MystricopyFrom (const Mystrk other) Size = Other size; capz other cap; _data = new dorkap]; Stropy (- data, other_data); void MyStr::move From MyStrAd. other) _data = other. data; Size = other size; cap = other cap; other _ data = nullptr; other cap=other size=0;

```
void My Str::free()
  delete[] -data;

-data=nullpts;

Size= cap=0;
 Void My Str:: resize (unsigned new Cap
      chart new Date = new char & new Cap + 15;
       Stropy (new Data, - data);
       delete 27 - data;
       _ donta = new Dataj
       ca p=newCap;
 MyStr:: MyStr(Bize+ string Len)
      cap = data Totalloc By String Lon (String Len);
data = new dar [cap];
   } -data = 10';
My Str (): My Str (mm) }}
My My Str (const dar data)
      if (Idata)
          throw std: invalid-argument ("Thralid stra");
      Size = Stilen (data);
      (ap = data to Alloc By Str Len (Size);
-data = new char 2 capt, Strcpy(-data, data);
```

ily. Str: lystring his ? copy From lother); MyStrl other) [MyString. 992 N=2 My Stri: My Str (My Str St other) noexcept move from (std: move lother) MOP= My Str:: Nhy Str () ? free(); size-t get(ap() const return cap; size AlyStr::getSize() const 3 return size, const char C_Str() const return _data; Mystring & Mystr: opt = (const Mystr & other) sizet= other. size; if (size = cap) resize data To Allocby StrLen (size); Streat (Lata, Other _ data); return this;

Char & My Str:: Operator & 7 (size t index) ? return _data[index]; Char My Str: pperator &] (size t inda) const

return _ data [index]; Std: 15 tream & op> / Std: 18tream & is, My Str & ref) Char lanff & 1024J; 15>>buff; Size t bufif Len = strlen(buff); If (Buff Len > ret. get Cap()) resize (data To Alloc By Str Len (BuffLen)); Stropy (ref. -data, buff); ref. Size = bufflen) . return isj 5+d: Ostream & open (std: ostream & os, construystit of). 05 << 06j, c-str(); MyString op+(const MyStrA lhs, const MyStrA rhs

{ MyStr res (lhs. getSizell + rhs. getSizel);

res+=lhs, res+=rhs;

return res;

ril op = = (const MyStrd lhs, const MyStrd rhs) Teturn /strimp(lhs.c.str(), rhs.c.str()); bool op!=(-11-) Return stremp (lhs. c.stre), shs. (Lstre); Gool op < (-11-)

Teturn stromp(Ms.c-str(), Ms.c-str())=0; bool op = [-//-). geturn stromp(lbs. c str(), rhs. c_str()) <=0; bool op > (-11-) return Stromp (lhs. c_str(), rhs. c_str())>0; book op >= (-11-) return stromp(lhs.c_strc), rhs.c_str) >=0;