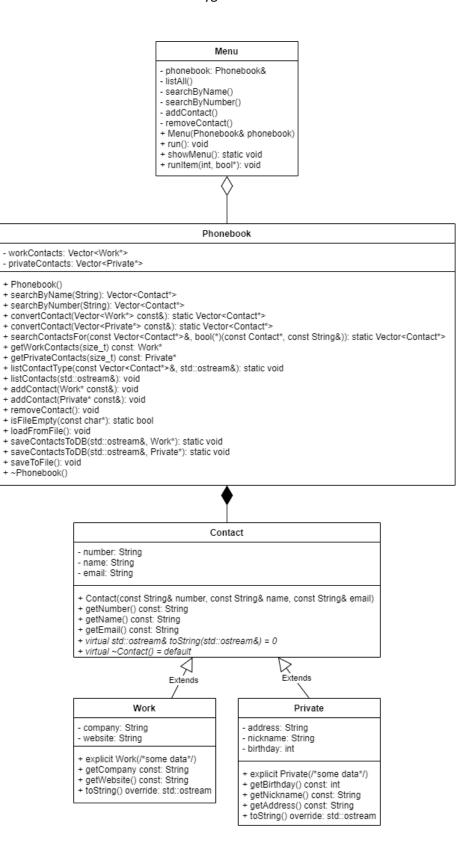
#### Telefonkönyv Generated by

#### Doxygen 1.8.18



+ loadFromFile(): void

+ saveToFile(): void + ~Phonebook()

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# A program leírása:

A program egy telefonkönyvként funkcionál. Két féle kontaktot lehet benne tárolni, munkahelyi számokat, és otthoni számokat. Hozzá lehet adni kontaktokat, és kitörölni, lehet listázni ezeket, aztán az adatokat lementeni egy fájlba, ahonnan ezek késobb visszatölthet" oek lesznek." Keresni is lehet név vagy telefonszám szerint. Pintér Tamás - JY4D5L

## **Hierarchical Index**

#### 2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically: Contact ...... 9 17 27 11 Phonebook ..... 12 String ..... 19

Vector< Private \*>.....

**Hierarchical Index** 

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23

## **Class Index**

#### 3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

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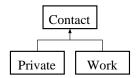
## **Class Documentation**

#### 5.1 Contact Class Reference

Contact class létrehozása.

#include <contact.hpp>

Inheritance diagram for Contact:



#### **Public Member Functions**

- Contact (const String &number, const String &name, const String &email)

  Contact CTOR A megadott értékekkel létrehoz egy Contactot.
- String getNumber () const

Number getter.

• String getName () const

Name getter.

• String getEmail () const

Email getter.

• virtual std::ostream & toString (std::ostream &)=0

A toString tiszta virtuális függvénye.

• virtual ~Contact ()=default

Contact DTOR.

#### **Protected Attributes**

• String number

A közös tulajdonságok number, name, email.

• String name • String email

5.1.1	Detailed	Description
-------	----------	-------------

Contact class létrehozása.

5.2 Menu Class Reference

#### 5.1.2 Member Function Documentation

5.1.2.1 getEmail()
String Contact::getEmail ( ) const [inline]
Email getter.
Returns email
5.1.2.2 getName()
String Contact::getName ( ) const [inline] Name getter.
Returns
name
5.1.2.3 getNumber()
String Contact::getNumber ( ) const [inline] Number getter.
Returns
number
The documentation for this class was generated from the following file:
<ul> <li>/Users/tomi/Documents/CPP/phonebook-cpp/DOXY/contact.hpp</li> </ul>

#### 5.2 Menu Class Reference

Menu class létrehozása.

#include <menu.hpp>

#### **Public Member Functions**

• Menu (Phonebook &phonebook)

Menu CTOR Létrehoz egy Menüt egy telefonkönyvvel.

• void run ()

Futtatja a menüt.

• void runltem (int index, bool \*isRunning) Futtat egy menüpontot.

#### **Static Public Member Functions**

• static void showMenu ()

Kiírja a menüt a felhasználónak.

#### 5.2.1 Detailed Description

Menu class létrehozása.

#### 5.2.2 Constructor & Destructor Documentation

#### 5.2.2.1 Menu()

Menu::Menu (

Phonebook & phonebook ) [inline], [explicit]

Menu CTOR Létrehoz egy Menüt egy telefonkönyvvel.

#### **Parameters**

#### **5.2.3** Member Function Documentation

#### 5.2.3.1 runitem()

void Menu::runItem (

int index,

bool \* isRunning )

Futtat egy menüpontot.

#### **Parameters**

index	ezzel a sorszámmal
isRunning	megkapja, hogy a programnak kell-e még futnia

The documentation for this class was generated from the following files:

- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/menu.hpp
- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/menu.cpp

#### 5.3 Phonebook Class Reference

#### **Public Member Functions**

• Phonebook ()

Phonebook CTOR.

Vector < Contact \*> searchByName (String &name)

Kilistázza azokat a kontaktokat amik nevében szerepel a "name" szó

Vector < Contact \*> searchByNumber (String &number)

Kilistázza azokat a kontaktokat amik telefonszámában szerepel a "number" szám.

• Work \* getWorkContacts (size\_t index) const

Visszatér a workContacts egy elemével.

• Private \* getPrivateContacts (size\_t index) const

Visszatér a workContacts egy elemével.

• void listContacts (std::ostream &)

Kilistázza a work és private Vectorok adatait a megadott ostreamre.

- void addContact (Work \*const &) hozzáad egy work Vectort a telefonkünyvhöz
- void addContact (Private \*const &)

Hozzáad egy private Vectort a telefonkönyvhöz.

void removeContact ()

Kitöröl egy kontaktot az indexe alapján (ezt a futása közben kéri be)

• void loadFromFile ()

Felveszi a database.txt-ben talált kontaktokat a telefonkönyvbe.

void saveToFile ()

Elmenti az összes kontaktot a database.txt fileba.

∼Phonebook ()

Phonebook DTOR Kitörli az összes kontaktot a memóriából.

#### 5.3 Phonebook Class Reference

#### **Static Public Member Functions**

static Vector < Contact \*> convertToContact (Vector < Work \*> const &workContacts)

Konvertál Vector</br>
Vector
<Contact\*>-ra.

• static Vector< Contact \*> convertToContact (Vector< Private \*> const &privateContacts)

Konvertál Vector<Private \*>-ról Vector<Contact\*>-ra.

static Vector < Contact \* > searchContactsFor (const Vector < Contact \* > &contacts, bool(\*search←-Command)(const Contact \*, const String &), const String &pattern)
 Kereso függvény."

static void listContactType (const Vector < Contact \*> &contacts, std::ostream &)
 Kilistázza a kontaktokat a megadott ostreamre.

• static bool isFileEmpty (const char \*filename)

Megmondja hogy az adott file üres-e.

static void saveContactsToDB (std::ostream &, Work \*)
 Elmenti a database.txt fileba a worn kontaktokat.

static void saveContactsToDB (std::ostream &, Private \*)
 Elmenti a database.txt fileba a private kontaktokat.

#### 5.3.1 Member Function Documentation

#### 5.3.1.1 convertToContact() [1/2]

Konvertál Vector<Private \*>-ról Vector<Contact\*>-ra.

#### **Parameters**

privateContacts	ezt a Vectort konvertálja
-----------------	---------------------------

Returns

átkonvertált Vector

#### 5.3.1.2 convertToContact() [2/2]

Konvertál Vector \*>-rol Vector \*< Contact \*>-ra.

#### **Parameters**

workContacts ezt a Vectort konvertálja

Returns átkonvertált Vector

#### 5.3.1.3 getPrivateContacts()

Private\* Phonebook::getPrivateContacts (
size\_t index ) const [inline]

Visszatér a workContacts egy elemével.

#### **Parameters**

index	Ezzel az elemével tér vissza
-------	------------------------------

Returns privateContacts[i]

#### 5.3.1.4 getWorkContacts()

Work\* Phonebook::getWorkContacts ( size\_t index ) const [inline]

Visszatér a workContacts egy elemével.

#### **Parameters**

Returns workContacts[index]

#### 5.3.1.5 isFileEmpty()

bool Phonebook::isFileEmpty ( const char \* filename ) [static]

#### **5.3 Phonebook Class Reference**

Megmondja hogy az adott file üres-e.

#### **Parameters**

filename ezt a filet teszteli

Returns üres-e a file

#### 5.3.1.6 listContactType()

Kilistázza a kontaktokat a megadott ostreamre.

#### **Parameters**

contacts	Ezeket listázza
----------	-----------------

#### 5.3.1.7 searchByName()

Kilistázza azokat a kontaktokat amik nevében szerepel a "name" szó

#### **Parameters**

name ez alapján a név alapján listáz

Returns a keresésnek megfelelt kontaktokat

#### 5.3.1.8 searchByNumber()

Kilistázza azokat a kontaktokat amik telefonszámában szerepel a "number" szám.

#### **5.4 Private Class Reference**

#### **Parameters**

name ez alapján a név alapján listáz

Returns a keresésnek megfelelt kontaktokat

#### 5.3.1.9 searchContactsFor()

Vector < Contact \* > Phonebook::searchContactsFor ( const Vector < Contact \* > & contacts, bool(\*)(const Contact \*, const String &) searchCommand,

const String & pattern ) [static]

Kereso függvény."

#### **Parameters**

contacts	Ebben a Vectorban keres	
searchCommand	Ezzel a kereso függvénnyel″	
pattern	Ez alapján	

Returns

Keresésnek megfelelt Vector

The documentation for this class was generated from the following files:

- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phonebook.hpp
- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phonebook.cpp

#### 5.4 Private Class Reference

Private class létrehozása.

#include <phone.hpp>

Inheritance diagram for Private:



#### **Public Member Functions**

Private (const String &number="unknown", const String &name="unknown", const String &nickname="unknown", const String &email="unknown", const String &address="unknown", int birth-

day=18900101)

Private CTOR A megadott paraméterekkel létrehoöz egy private kontaktot.

- int getBirthday () const
  - Birthday getter.
- String getNickname () const

Nickname getter.

• String getAddress () const

Addressg getter.

• std::ostream & toString (std::ostream &) override

Kiírja a megadott kimenetre a private adatait formázva.

#### **Additional Inherited Members**

#### 5.4.1 Detailed Description

#### 5.4.2 Member Function Documentation

## 5.4.2.1 getAddress() String Private::getAddress ( ) const [inline] Addressg getter. **Returns** address 5.4.2.2 getBirthday() int Private::getBirthday ( ) const [inline] Birthday getter. Returns birthday **5.5 String Class Reference** 5.4.2.3 getNickname() String Private::getNickname ( ) const [inline] Nickname getter. Returns nickname 5.4.2.4 toString() std::ostream & Private::toString ( std::ostream & os ) [override], [virtual] Kiírja a megadott kimenetre a private adatait formázva. Returns private adattagjai formázva Implements Contact.

The documentation for this class was generated from the following files:

- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phone.hpp
- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phone.cpp

#### 5.5 String Class Reference

#include <string5.h>

#### **Public Member Functions**

- size\_t size () const
- const char \* c\_str () const
- String (char ch)

Konstruktor: egy char karakterbol (createStrFromChar)"

- String (const char \*p="")
- String (const String &s1)
- virtual ~String ()

  Destruktor.
- void printDbg (const char \*txt="") const
- String & operator= (const String &rhs\_s)
- String operator+ (const String &rhs\_s) const
- String operator+ (char rhs\_c) const
- char & operator[] (unsigned int idx)
- const char & operator[] (unsigned int idx) const

#### 5.5.1 Detailed Description

String osztály. A pData-ban vannak a karakterek (a lezáró nullával együtt), len a hossz. A hosszba nem számít bele a lezáró nulla.

#### 5.5.2 Constructor & Destructor Documentation

#### 5.5.2.1 String() [1/3]

String::String (

char *ch* )

Konstruktor: egy char karakterbol (createStrFromChar)"

Konstruktor egy char karakterbol"

#### **Parameters**

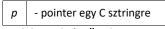
*ch* - karakter

#### 5.5.2.2 String() [2/3]

String::String (  $\label{eq:const} \mbox{const char} * p = "")$ 

Konstruktor egy nullával lezárt char sorozatból Ez a deafault is!

#### **Parameters**



#### 5.5.2.3 String() [3/3]

String::String (

const String & s1)

Másoló konstruktor

#### **Parameters**

s1 - String, amibol létrehozzuk az új String-et″

**5.5 String Class Reference** 

#### 5.5.3 Member Function Documentation

#### 5.5.3.1 c\_str()

const char\* String::c\_str ( ) const [inline]

Default konstruktor String():pData(0), len(0) {} helyett ""-val inicializáljuk a const char\*-osban C-sztringet ad vissza

Returns pinter egy '\0'-val lezárt (C) sztringre

#### 5.5.3.2 operator+() [1/2]

String String::operator+ (

char rhs\_c) const [inline]

Sztrinhez karaktert összefu"z

#### Parameters

rhs←-	- jobboldali karakter
_c	

Returns

új String, ami tartalmazza a sztringet és a karaktert egymás után

#### 5.5.3.3 operator+() [2/2]

String String::operator+ (

const String & rhs\_s ) const

Két Stringet összefu″z

#### **Parameters**

rhs←-	- jobboldali String
_s	

Returns új String, ami tartalmazza a két stringet egmás után

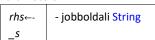
#### 5.5.3.4 operator=()

String & String::operator= (

const String & rhs\_s)

Értékadó operátor.

#### **Parameters**



Returns baoldali (módosított) string (referenciája)

#### 5.5.3.5 operator[]() [1/2]

char & String::operator[] (
 unsigned int idx )

A string egy megadott indexu" elemének REFERENCIÁJÁVAL tér vissza.

#### **Parameters**

idx - charakter indexe

Returns karakter (referencia) Indexelési hiba esetén const char\* kivételt dob.

#### 5.5.3.6 operator[]() [2/2]

const char & String::operator[] (
 unsigned int idx ) const

A string egy megadott indexu" elemének REFERENCIÁJÁVAL tér vissza.

#### 5.6 Vector < T > Class Template Reference

#### **Parameters**

*idx* - karakter indexe

Returns karakter (referencia) Indexelési hiba esetén const char\* kivételt dob (assert helyett).

#### 5.5.3.7 printDbg()

void String::printDbg (

const char \* txt = "") const [inline]

Kiírunk egy Stringet (debug célokra) Elotte kiírunk egy tetsz″ oleges szöveget.″

#### **Parameters**

txt - nullával lezárt szövegre mutató pointer

5.5.3.8 size()

size\_t String::size ( ) const [inline] Hossz lekérdezése.

#### Returns

Sztring hossza

The documentation for this class was generated from the following files:

- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/string5.h
- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/string5.cpp

#### 5.6 Vector < T > Class Template Reference

#### **Public Member Functions**

- Vector (size\_t size=0) ennyi elemet tárolunk benne éppen
- ~Vector () Vector DTOR.
- Vector (const Vector &vector)
   Copy CTOR.
- Vector & operator= (const Vector &vector)

Ertekado operator.

 T & operator[] (size\_t index) const Indexelo operátor."

- size\_t getSize () const méret getter
- void increaseSize ()

Átméretezi a vektort egyel nagyobbra.

- void push\_back (const T &item) hozzárak egy elemet a tárolóhoz
- void swap (size\_t index1, size\_t index2) megcserél két tárolt elemet az indexeik alapján
- void deleteltem (size\_t index) kitöröl egy elemet a tárolóbol

#### 5.6.1 Constructor & Destructor Documentation

#### 5.6.1.1 Vector() [1/2]

template<typename T >

Vector < T >::Vector (

size\_t size = 0) [inline]

ennyi elemet tárolunk benne éppen

**Vector CTOR** 

#### **Parameters**

size	size of the vector
------	--------------------

5.6.1.2 Vector() [2/2]

template<typename T >
Vector< T >::Vector (

const Vector < T > & vector ) [inline]

Copy CTOR.

#### **Parameters**

vector	ezt a vektort másoljuk le
--------	---------------------------

**5.6 Vector** < T > Class Template Reference

#### 5.6.2 Member Function Documentation

#### 5.6.2.1 deleteItem()

template<typename T >

void Vector< T >::deleteItem (

size\_t index ) [inline]

kitöröl egy elemet a tárolóbol

#### **Parameters**

index	ezt az indexu″ tagot törli
-------	----------------------------

5.6.2.2 getSize()

 $template < typename \ T > size\_t \ Vector < T > ::getSize \ ( \ ) \ const \ [inline]$ 

méret getter

Returns méret

#### 5.6.2.3 operator=()

template<typename T >

Vector& Vector< T >::operator= (

const Vector < T > & vector ) [inline]

Ertekado operator.

#### **Parameters**

vector	ezt az értéket adjuk át

Returns

\*this

#### 5.6.2.4 operator[]()

template<typename T >

T& Vector< T >::operator[] (

size\_t index ) const [inline]

Indexelo operátor."

#### **Parameters**

index ennél az indexné	l lévo adatot adjuk vissza"
------------------------	-----------------------------

Returns array[index]

#### 5.6.2.5 push\_back()

template<typename T >

hozzárak egy elemet a tárolóhoz

#### **Parameters**

```
t A kapott elem referenciája.
```

#### 5.6.2.6 swap()

megcserél két tárolt elemet az indexeik alapján

#### **Parameters**

index1	1. elem
index2	2. elem

The documentation for this class was generated from the following file:

• /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/vector.hpp

#### 5.7 Work Class Reference

#### 5.7 Work Class Reference

Work class létrehozása.

#include <phone.hpp>

Inheritance diagram for Work:



#### **Public Member Functions**

• Work (const String &number="unknown", const String &name="unknown", const String &email="unknown", const String &company="unknown", const String &website="unknown")

Work CTOR A megadott adatokkal létrehoz egy work kontaktot.

• String getCompany () const

Company getter.

• String getWebsite () const

Website getter.

• std::ostream & toString (std::ostream &) override

Kiírja a megadott kimenetre a work adatait formázva.

#### **Additional Inherited Members**

#### 5.7.1 Detailed Description

Work class létrehozása.

#### 5.7.2 Member Function Documentation

# 5.7.2.1 getCompany() String Work::getCompany ( ) const [inline] Company getter. Returns company 5.7.2.2 getWebsite() String Work::getWebsite ( ) const [inline] Website getter.

#### 5.7.2.3 toString()

Returns website

```
std::ostream & Work::toString ( std::ostream & os ) [override], [virtual]
```

Kiírja a megadott kimenetre a work adatait formázva.

Returns

work adattagjai formázva

Implements Contact.

The documentation for this class was generated from the following files:

- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phone.hpp
- /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phone.cpp

## **File Documentation**

# 6.1 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/contact.hpp File Reference

Contact class.

#include "string5.h"

#### **Classes**

• class Contact

Contact class létrehozása.

#### 6.1.1 Detailed Description

Contact class.

# 6.2 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/menu.cpp File Reference

Menu class fügvényei.

#include <iostream> #include "menu.hpp" #include "memtrace.h"

#### 6.2.1 Detailed Description

Menu class fügvényei.

# 6.3 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/menu.hpp File Reference

Menu class.

#include "phonebook.hpp"

#### Classes

• class Menu

Menu class létrehozása.

#### 6.3.1 Detailed Description Menu

class.

# 6.4 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phone.cpp File Reference

Phone class fügvényei.

#include "phone.hpp" #include "memtrace.h"

#### 6.4.1 Detailed Description

Phone class fügvényei.

# 6.5 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phone.hpp File Reference

Phone class fügvényei.

#include <iostream>
#include "contact.hpp"
#include "string5.h"

#### Classes

• class Work

Work class létrehozása.

• class Private

Private class létrehozása.

6.6 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phonebook.cpp File Reference

#### 6.5.1 Detailed Description

Phone class fügvényei.

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# 6.6 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phonebook.cpp File Reference

Phonebook class fügvényei.

#include "phonebook.hpp" #include <fstream> #include "memtrace.h"

#### **Functions**

- bool equalFromHere (String const &str, String const &pattern)
- bool containsName (const Contact \*contact, const String &pattern)
- bool containsNumber (const Contact \*contact, const String &pattern)

#### 6.6.1 Detailed Description

Phonebook class fügvényei.

# 6.7 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/phonebook.hpp File Reference

Phonebook class.

#include "contact.hpp" #include "phone.hpp" #include "string5.h" #include "vector.hpp"

#### Classes

class Phonebook

#### 6.7.1 Detailed Description

Phonebook class.

# 6.8 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/string5.cpp File Reference

#include <iostream>
#include <cstring>

```
#include "memtrace.h"
#include "string5.h"
```

#### **Functions**

- std::ostream & operator<< (std::ostream &os, const String &s0)
- std::istream & operator>> (std::istream &is, String &s0)

#### 6.8.1 Function Documentation

#### 6.8.1.1 operator<<()

```
std::ostream& operator<< (
std::ostream & os,
const String & s0)
```

Globális függvények: kiír az ostream-re

#### **Parameters**

os	- ostream típusú objektum
s0	- String, amit kiírunk

Returns os

#### 6.8.1.2 operator>>()

Beolvas az istream-rol egy szót egy string-be."

6.9 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/string5.h File Reference

#### Parameters

is	- istream típusú objektum
s0	- String, amibe beolvas

#### Returns

is

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# 6.9 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/string5.h File Reference

#include <iostream>

#### Classes

• class String

#### **Functions**

- std::ostream & operator<< (std::ostream &os, const String &s0)
- std::istream & operator>> (std::istream &is, String &s0)
- String operator+ (char ch, const String &str)

#### 6.9.1 Detailed Description

Ez a fájl tartalmazza a String osztály deklarációját és inline függvényeit.

#### 6.9.2 Function Documentation

#### 6.9.2.1 operator+()

String operator+ (

char ch,

const String & str ) [inline]

Karakterhez sztringet fu″z

#### **Parameters**

ch	- karakter
str	- String

Returns új String, ami tartalmazza a karaktert és a sztringet egymás után

#### 6.9.2.2 operator<<()

std::ostream& operator<< (

std::ostream & os,

const String & s0)

Globális függvények: kiír az ostream-re

#### **Parameters**

os	- ostream típusú objektum
s0	- String, amit kiírunk

Returns

os

#### 6.9.2.3 operator>>()

Beolvas az istream-rol egy szót egy string-be."

#### **Parameters**

is	- istream típusú objektum
s0	- String, amibe beolvas

Returns

is

# 6.10 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/vector.hpp File Reference

Vector class.

#include <cstdlib>

6.10 /Users/tomi/Documents/CPP/phonebook-cpp/DOXY/vector.hpp File Reference

#### Classes

• class Vector< T >

#### **6.10.1** Detailed Description

Vector class.

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