```
class Myclass {

public:
    Myclass() default:
    Myclass(int),

} La kiz akfault almagn by ctor uzalamiz dunda

complier default clor alustumar, Ama biz yire de liftigardi
```

```
class Sentence {
public:
    Sentence(const char* p) : m_len{ std::strlen(p) }, m_p{ static_cast<char*>(malloc(m_len + 1)) }
                                                                                      +1 conto nul onerester
                                                                                           rom de yes quidile l
        if (!m_p) {
            std::cerr << "bellek yetersiz\n";
            std::exit(EXIT_FAILURE);
        std::cout << this << " adresindeki nesne icin " << (void*)m_p << " adresindeki bellek alani allocate edildi\n";
         std::strcpy(m_p, p);
     Sentence(const Sentence& other) : m_len(other.m_len), m_p{ static_cast<char*>(malloc(m_len + 1)) }
     {
                                                           terración pornter ion yer allocote estip
          if (!m_p) {
             std::cerr << "bellek yetersiz\n";
              std::exit(EXIT_FAILURE);
          stropy(m_p, other.m_p); allows edner alona, volycona gottime, pointer in kepylanosi)
       void print()const
           ~Sentence()
            std::cout << this << " adresindeki nesne icin " << (void*)m_p << " adresindeki bellek alani geri veriliyor\n";
            std::free(m_p);
     private:
        char* m_p;
         std::size_t m_len;
```

bizim yomeniz gorelen capy constructor tem derok toyle olmalil - Bu Deep Capy Yapiyor

```
# Your Mandlelon happy lands from, compiles copy that a yearne deep copy year beauti copy that make Degar alogic, year but memory days obstable refle.

# Copy Assignment: Negretar bitistive alordiends
```

```
1301 class Myclass {
public:
    Myclass& operator=(const Myclass&);
}

1305
1306
1307

a tern cognin

a = b;

a operator = (b)
```

· by da snallow copy yapiyor.

```
Sentence sen_1{ "bugun hava cok guzel!" };

{
Sentence sen_2{ "umarim yarin da guzel olur" };

sen_2 = sen_1;
}
(void)getchar();
sen_1.print();
```

· Ctt divinde atoma operatories ile olusturulan itadelerin deser briogerisi Luche expression

- ' Bir sinifin copy ctor'i. In sinif necess, howler, digretar. Gynn sinif. thronden our bir nesee the cognitalities
- 'Bit sinif necessive Alama operatoriste, byn terato bit sinif nemer abodyna, but generalization Assumed

```
minr Dret:
```

```
#define _CRT_SECURE_NO_WARNINGS

#include <iostream>
#include <cstring>
#include <cstdlib>

#class Myclass {

public:

Myclass(); > delat clor

Myclass(); > delat clor

Myclass(); > delate clor

Mycla
```

Eger kapyalayan atama operator tentriporunu kandimiz yopiyorsak, (ue a literatif yipi yaksa, capy-suap yaksa)

```
Fi self ossign'a borsi bondoi et
```

+ Bry 3 / Rule of 3:

desticolar

Grs 5: -> year olerat

oopy etor

+ move gergners

copy assignment

t more constructor.

Move Serrantigi: • Bir neonenia you edimonine doğru, kaynovlarını vermek yerne, onu dagarıyı hayota gelecek neonenia, bayrol

· R value referentes once yout.

```
void func(const int&);
void func(int&&);

void func(int&&);

Lake

int main()

{

}
```

```
| class Myclass {
| };
| void func(const Myclass&);
| void func(Myclass &&);
| void func(Myclass
```

```
class Myclass {

public:

    Myclass(const Myclass &); } and class red = 2 voice = Copy Control

    Myclass(Myclass &&); } & content = 2 voice = Copy Control

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    Myclass(Myclass &&); } & content = 2 voice =
```

```
eclass Myclass {

};

eint main()
{

Myclass m1;

Myclass m2 = m1;

Copy ctr.
```

```
Myclass m1;

Myclass m2 = static_cast<Myclass&&>(m1);

Gu sellate continue mi i Lucle apart more continue mi i Lucle apart more continue mi i Lucle apart more continue myclass m1;

Myclass m2 = std::move(m1)

La loge de Lucle als.
```

Hotrict ma:

+ Derleyronin olutuduru Move Sementitliri:

```
//move ctor
Myclass(Myclass &other) : ax std::move(other.ax)), bx(std:>:move(other.bx)), cx(std::move(other.cx))

//move ctor
Myclass(Myclass &other) : ax std::move(other.ax)), bx(std:>:move(other.bx)), cx(std::move(other.cx))

//move ctor
/
```

```
Derleyici hangi durumlarda sınıfın hangi özel üye fonksiyonlarını

bir sınıfın bir özel üye fonksiyonu aşağıdaki 3 durumdan birinde olabilir

,yok

2. user declared (programcı tarafından bildirilmiş)

Myclass();

Myclass() = default;

Myclass() = defeult;

Myclass() = delete;

Mycl
```