- How Did Move semantics Get storted - Stoyt !

Special Members

compiler implicitly declares

	default constructor	destructor	copy constructor	copy assignment	move constructor	move assignment
Nothing	defaulted	defaulted	defaulted	defaulted	defaulted	defaulted

- If the user declares no special members or constructors, all 6 special members will be defaulted.
- This part is no different from C++98/03

Special Members

compiler implicitly declares

	default constructor	destructor	copy constructor	copy assignment	move constructor	move assignment
Nothing	defaulted	defaulted	defaulted	defaulted	defaulted	defaulted

- "defaulted" can mean "deleted" if the defaulted special member would have to do something illegal, such as call another deleted function.
- Defaulted move members defined as deleted, actually behave as not declared.

user declares

Special Members

compiler implicitly declares

	default constructor	destructor	copy constructor	copy assignment	move constructor	move assignment
Nothing	defaulted	defaulted	defaulted	defaulted	defaulted	defaulted
Any constructor	not declared	defaulted	defaulted	defaulted	defaulted	defaulted

• If the user declares any non-special constructor, this will inhibit the implicit declaration of the default constructor.

Special Members

compiler implicitly declares

	default constructor	destructor	copy constructor	copy assignment	move constructor	move assignment
Nothing	defaulted	defaulted	defaulted	defaulted	defaulted	defaulted
Any constructor	not declared	defaulted	defaulted	defaulted	defaulted	defaulted
default constructor	user declared	defaulted	defaulted	defaulted	defaulted	defaulted
destructor	defaulted	user declared	defaulted	defaulted	not declared	not declared

- · A user-declared destructor will inhibit the implicit declaration of the move members.
- The implicitly defaulted copy members are deprecated.
 - If you declare a destructor, declare your copy members too, even though not necessary.

Special Members

compiler implicitly declares

	default constructor	destructor	copy constructor	copy assignment	move constructor	move assignment
Nothing	defaulted	defaulted	defaulted	defaulted	defaulted	defaulted
Any constructor	not declared	defaulted	defaulted	defaulted	defaulted	defaulted
default constructor	user declared	defaulted	defaulted	defaulted	defaulted	defaulted
destructor	defaulted	user declared	defaulted	defaulted	not declared	not declared
copy constructor	not declared	defaulted	user declared	defaulted	not declared	not declared
copy assignment	defaulted	defaulted	defaulted	user declared	not declared	not declared
move constructor	not declared	defaulted	deleted	deleted	user declared	not declared
move assignment	defaulted	defaulted	deleted	deleted	not declared	user declared

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* Destructive the specifies and non-moveds

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```

```
#include <string>

pint main()

{
    using mamespace std;

    string s1;

    //
    string s2 = s1; — copied
    string s3 = std::move(s1);
}

Applie and
moveoble

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```

user declares

```
-> Move, 'un Aydası, biç-handle
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  - Programmin dilected nowfoda haptini batility bithreagn nesner.
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             - 0 sinif tecondon desirtanier, pointer six dominisa
                                                                    Dinamik omulio.
                                                                classian negation kantal
                                                                   eden pernter the
                                                                       classes
    int main()
```

```
auto p1 = new Myclass;

Myclass *p2 = new Myclass;

auto *p3 = new Myclass;

delete p1;

delete p2;

delete p3;

boyle delete edim.

hogh

soulconin.
```

```
Malloctor Perkii olarok melloe kasaramassa -> returns Nulpti

New basaramassa -> throws exeption

sizeal (mycloss)

Thew, operator new cognir. -> void *operator new(std::size_t)
```

```
-> Eser delete edilmerse -> destructor cogrilmon
```

La Ruran menury verlinez, menay (not district.

```
sint main()
{
    std::cout << "sizeof(Myclass) = " << sizeof(Myclass) << "\n";

    auto p = new Myclass;
    std::cout << "p = " << p << "\n";

    delete p;
}</pre>
```

```
void* operator new(std::size_t n)
{
    std::cout << "operator new called! n = " << n << "\n";
    void* vp = std::malloc(n);
    if (vp == nullptr) {
        throw std::bad_alloc{};
    }
    std::cout << "the address of allocated block is: " << vp << "\n";
    return vp;
}</pre>
```

Array New Operatoris:

- Brown forta dirante amoric nesney obster.

```
kac elemanli bir dizi: 5
                                              Myclass default ctor. this: 00DA206C
private:
                                              Myclass default ctor. this: 00DA216C
   unsigned char m_buffer[256]{};
                                              Myclass default ctor. this : 00DA226C
Myclass default ctor. this : 00DA236C
                                              Myclass default ctor. this : 00DA246C
 int main()
                                              D:\KURSLAR\MART2022\Debug\MART2022.exe (process 26700) exited with code 0
 {
     std::cout << "kac elemanli bir dizi: ";
                                              Press any key to close this window . . .
     int n;
     std::cin >> n;
     Myclass* p = new Myclass[n];
     delete []p - sile siling.
```

stronin territode dolete editi.

C'den Hoterletma#

```
int main()
{
  int a[10] = { 0, 1, 2, 3, 4, 5, 6, 7, 8, 9 };

  for (int i = 0; i < 10; ++i) {
        a[i] i[a]
    }
    iers ayn anama gelius. Cento: *(i+a)
```