```
* Attrioutes Denon:
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```
[Coleprecoled]):
```

```
| struct [[deprecated("use struct ErgNec")]] Nec {
    int a, b, c;
};

| pint main() {
    Nec mynec;
    ///
}
```

```
enum class Color {white, blue, black, red, magenta};

void f_white();
void f_blue();
void f_black();
void f_red();
void f_magenta();

evoid foo(Color c)
{
    //...
    switch (c) {
    case Color::white: f_white(); break;
    case Color::blue: f_blue(); break;
    [[likely]] case Color::black: f_black(); break;
    case Color::red: f_red(); break;
    case Color::magenta: f_magenta(); break;
}
```

```
constexpr double pow(double x, long long n) noexcept
    if (n > 0) [[likely]]
        return x * pow(x, n - 1);
    else [[unlikely]]
         return 1;
}
constexpr long long fact(long long n) noexcept
     if (n > 1) [[likely]]
         return n * fact(n - 1);
     else [[unlikely]]
         return 1;
 □constexpr double cosin(double x) noexcept
      constexpr long long precision{ 16LL };
      double y{};
      for (auto n{ OLL }; n < precision; n += 2LL) [[likely]]
          y += pow(x, n) / (n & 2LL ? -fact(n) : fact(n));
          return y;
```

```
[[maybe_cnused]]: - kullanimgen promoked departenties compiler upon veryor!
[[maybe_unused]] static int foo(int x)
                                                                 > fao fanbsiyan tehnolondulun sarra, kullanlmesaydi compile yyri vekdi.
  {
                                                                           nederation office tellenmayorous
         1111
         return x * x;
                                                                  Degrikante 10th de kullantur. I
                                                             [[maybe_unused]] bool thing2)
  [[maybe_unused]] void f([[maybe_unused]] bool thing1,
        [[maybe_unused]] bool b = thing1 && thing2;
        assert(b); // in release mode, assert is compiled out, and b is unused
        // no warning because it is declared [[maybe_unused]]
    } // parameters thing1 and thing2 are not used, no warning
    int main() {}
 [cno_return]:
                                                   nvilgen return elmeden exit edigarun
  [[noreturn]] void Exit();
                                                                 coptron throw ethner de buno don'll
  [[noreturn]] void bar(int i)
      if (i < 0) {
           throw std::runtime_error{ "error!!!!" };
```

[[fall through]]: - switen slotementain de |

case 2: f2(); break;
case 3: f3(); break;

case 1: f1(); [[fallthrough]]

void f1();
void f2();
void f3();

void func(int x)

switch (x) {

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```
template <typename T>
estruct TypeIdentity {

using type = T;
};

template <typename T>
using TypeIdentity t = TypeIdentity<T>::type;

alos template 'typename T>
void foo(T, TypeIdentity_t<T>);

int main()

foo(1.4, 5);

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+ 10to:
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```
using namespace std;

vector<int> ivec(10);

iota(ivec.begin(), ivec.end(), 0);

for (auto i : ivec)

cout << i << " ";
```

```
* Std:: ranges: - Cop 20
```

= Ege - STL ile condenne bir seneyo (sect, for-each...) versa, Sti degil renges bellen

mümkünse yenisini kullanalım.
yenisini kullanmak daha pratik
yenisini kullanmak daha güvenli
yenisini kullanmak daha verimli (efficient)
yenisini kullanmak ilave avantajlar (esneklik) kazandırıyor

Diger algoritmourle cakismanasi, tein, namespace alias kulleniloil

namespace rng = std::ranges;

=>nome space allras

```
a) yeni algoritmalar (conscept) constarined
b) bildirimlerin bir kısmı farklı yapıda

C) ileratu gandrost yene, dosit o collection gandranız (?)

template <std::ranges::range T>

void foo(T &&c)

Planet 57:

vector<Date> dvec;
rfill(dvec, 20, Date::random);
sort(dvec.begin(), dvec.end());

ranges::sort(dvec);

ranges::sort(dvec);
```

⊕ Son 30 doluka → renge torknin fleotoriennin subsumption i