```
Malalet Sonsu:
```

```
int main()
     using namespace std;
     vector<string> svec;
      rfill(svec, 50, rname);
      print(svec);
      //bu vector'u bir iterator kullanarak dolaşın.
      //eger vector'deki string'in uzunluğu 5 ise o isimden bir tane daha ekleyin]
      //eger vector'deki string'in uzunluğu 6 ise o ismi silin ] - erase, silmecek fteretor
                                                              konununan, 1 sonrakt konunu dar
* iterator and reterance invalidation:
  - standartar bunu aaikliyar !
 -> conteiner don conteiner a fact gosteriyor.
     Contornation titugu nesneut,
                                                                   Foot, boys externe silme release upper larkements,
                                     7. It invollable edimisi hullement I onun gotterligi york otherek = undefined benevior,
```

-> Ancor, replies of moder insertion yypersol, insert eliterime terms both volid v # Ornego realloc her seys sovered edes.

```
using namespace std;
vector<int> ivec{ 2 ,3, 4, 5, 6, 7 };
ivec.reserve(100);
//vector<int> ivec{ 2,3,4,5,-16,7};
ivec.insert(ivec.begin() + 4, -1);
```

```
using namespace std;
vector<int> ivec{ 2 ,3, 4, 5, 6, 7 };
ivec.reserve(_Newcapacity: 100);
int* p = &ivec[5]; } Ayradum measur con do genero
std::cout << "*p= " << *p << "\n"; } biken
                                                    thuolid
 ivec.insert(_Where:ivec.begin() + 4, _val:-1);
                                                     Jonna 2
                                                        durang.
 std::cout << "*p= " << *p << "\n"; } 7 old
```

```
* Moloket Soruzum Goromo:
-> era se rain: enose, silme triemmiden, soma, sillinenden, bir sannifr fanunun stanfarini dentair,
mset tern; eklenen konung, sterpter dondordr.
   eger stime yophysok, return edecak thouser door your own should doorn
   egac, insact yapıyorda, return digir flacillisis ton thinn flectebilinde toin flowbor t2
    vector<string> svec;
    rfill(svec, 50, rname);
     print(svec);
     for (auto iter = svec.begin(); iter != svec.end();) {
          if (iter->length() == 6) {
              iter = svec.erase(iter);
           else if (iter->length() == 5) {
                iter = svec.insert(iter, *iter);
                advance(iter, 2);) -> ter +=
           else {
                ++iter;
       print(svec);
* Same Algaitmour:
 -> longe parameteli bit algoritma, soz kensy rageden the silenez.
                                                                     void algo(Iter beg, Iter end)
-> Silme algoriment logic offine yppyr. / logic easure
 3 2 9 7 2 0 2 7 1 2 9 2 1
  39707191?????
                                                   Fritisel iderok silmek yerne, silinimis gibr ligeler yenrebn dozen layer. We logic end
                          - slogic end tanumu
                                                    Contesnecin acci degrameds. Fin
```

```
vector<int> ivec{ 1, 2, 5, 6, 2, 3, 2, 9, 2, 2, 4, 7 };
 std::cout << "ivec.size() = " << ivec.size() << "\n";
 auto logic_end_iter = remove(ivec.begin(), ivec.end(), 2);
 std::cout << "ivec.size() = " << ivec.size() << "\n";
 print(ivec.begin(), logic_end_iter); ]-1,5,6,3,9,4,2
* Ivec_end() - lostc_end_iter() =
                                          ivec.end() - logic end iter << "\n";
std::cout << "silinen oge sayisi:
std::cout << "silinen oge sayisi: " << distance(logic_end_iter, ivec.end()) << "\n";
# Brase Conveyory the gercould strategies
  ivec.erase(logic_end_iter, ivec.end())
* Remove - Erose Idiom: -> Tet colorde, confirmer dan 69e offme
  vector<int> ivec{ 1, 2, 5, 6, 2, 3, 2, 9, 2, 2, 4, 7 }; logre end.
  int ival = 2:
  ivec.erase(remove(ivec.begin(), ivec.end(), ival), ivec.end());
· Cpp 20 de, global dontrigen dant erose geliger.
 //ivec.erase(remove(ivec.begin(), ivec.end(), ival), ivec.end());
 auto n = erase(ivec, ival);
& Unique Algoritmosi
  ardışık özdeş değerdeki öğelerin sayısını bire indiriyoruz
```

```
using namespace std;

vector<int> ivec;
rfill(&:ivec, n:100, frand:[] {return Irand{ 0, 3 }(); });
print(ivec);

ivec.erase(_First:unique(_First:ivec.begin(), _Last:ivec.end()), _Last:ivec.end()); >erase source std::cout << "ivec.size() = " << ivec.size() << "\n";

print(ivec);</pre>
```

```
using namespace std;

string str;

std::cout << "bir yazi girin: ";

getline(cin, str);

std::cout << "[" << str << "]\n";

str.erase(unique(str.begin(), str.end(), [](char c1, char c2) {
    return isspace(c1) && isspace(c2); }), str.end());

std::cout << "[" << str << "]\n";
```

Klemore Copy: -> Bir degerdout oge harra neptint hoppia.

* Sprunde copy olon olgoritmoles, by islemient in-place deals, books his conse tein lapor.

* lenove_ Copy_ it:

```
int main()
{
    using namespace std;

vector(int) ivec;
    rfil(&ivec, mi00, frank:[] {return Irand{ 0, 100}(); });
    print(ivec);

vector(int) dvec;

//remove_copy(ivec.begin(), ivec.end(), back_inserter(dvec), 2);
    std::cout << "kaca tam bolumenler kopyalammasin: ";
    int ival;
    cin >> ival;

remove_copy_if(_First_ivec.begin(), _Last_ivec.end(), _Dest_back_inserter(&_Contidvec), _Dest_fivel_[ival](int x) {return x x ival == 0; });

std::cout << "dvec.size() = " << dvec.size() << "\n";
    print(dvec);
</pre>
```

* Penerse / Leverse Copy:

-> conget i tersine Generic.

* Leplace:

```
int main()
{
   using namespace std;

   vector<int> ivec;
   rfill(ivec, 10, [] {return Irand{ 0, 5}(); });
   print(ivec);

   replace(ivec.begin(), ivec.end(), 3, 9);
}
```

```
* Replace Copy / Replace Copy If:
```

* legace_if():

* Sirolomogo ilishir Alcocitmolor:

```
sort
stable_sort
partial_sort
partial_sort_copy
n_th_element
partition
stable_partition
partition_copy
is_sorted
is_sorted_until
```

```
*Sort; -> N log (n)
-> Pandom access state air.
```

```
using namespace std;

vector<int> ivec;
rfill(ivec, 100, Irand{ 0, 1000 });
print(ivec);
sort(ivec.begin(), ivec.end(), [](int a, int b) {return a > b; });
print(ivec);
```