Vectors

Declaration

vectors(int) v ;

Allocation vectors (int) v (len); v. resize(len);

v. nesize(len); Initialisation

vectors(int) v (len, element); $v = \{1, 2, 3\}$;

Traverse

for (int i=0; i(v. size(); i++)

cont (v[i] (';

for (auto itr:v)

cont (itr (';

Insertion

v.jusert (v.begins+ idx, element);

Deletion

v.erase (v. begin() + idx); v.elear();

pair (int, int) p = {1,23; cout << p. first; cout << p. second; vectors (pair (int, int)) vp; p.first = element; p-second = element;

```
set (in+) s;
        Set (int) s = {1,2,3};
for (auto its = 5. begins);
           its != s. endls;
      cont K +its K 17;
for (auto iti:s)
cont K iti K';
   5. insert (element);
  S. erase (s. begin() tidx); s. erase (element);
  Siclear();
```

```
map<int, int> m;
  M= { {key, element}, {key2, element2}, ...}
 for (int i=0; iss; i++)
      m[i] = i+5;
  m[key] = element; m.insert ({tey, element});
 for (auto ita: m)
                       'K its second Kendl;
   cout Kitz. first K
m enase (key);
m. erase (m.begin() + idx);
if (m. find (key)!= m. end())
        cout << "Found!";
```

```
imt x = stoi ("10") j
                cout << "Found!"
       s= to-string (3.14*2*2);
                                       doubley = stod ("3.14");
      storing s = "Hi";
                                5="";
      string s("Hi");
      string s (len, character);
                                  cout Ks. substr (idx)
cout (S. substan (idx, len);
                                           L> Display till
                                              the end of
    cout Ks;
                                               string.
     getline (cin,s);
                            s.enase (idx, len);
   s = "Hello";
s = s + "world";
                            s.enase (itn-begin, itn-end);
      if (s.find ("Hello world") != string:: mpos)
               cout "Found At: " TS. find ("Hello world");
```