```
bsd:tstvect% cat -n tvect.cpp
     1  #include<vector>
     2  #include<iostream>
     3  using namespace std;
     4  vector<long> x(10);
     5  int main( ) {
     6     int i;
     7     for(i=0; i<=13; ++i) x[i]=i;
     8     cout << "capa=" << x.capacity( ) << endl;
     9     cout << "size=" << x.size( ) << endl;
    10     cout << "x[9] = " << x[9] << endl;
    11     cout << "x[10] = " << x[10] << endl;
    12     cout << "x[11] = " << x[11] << endl;  // 超過沒有關係, 後果自行負責
    13     cout << "x[12] = " << x[12] << endl;  // 超過沒有關係, 後果自行負責
    14     cout << "x[13] = " << x[13] << endl;  // 超過沒有關係, 後果自行負責
    15     x.push_back(3838);
    16     cout << "after push_back:\n";
    17     cout << "capa=" << x.capacity( ) << endl;
    18     cout << "size=" << x.size( ) << endl;
    19     cout << "注意目前的 size !"<<endl;
    20     try {
    21        for(i=8; i<=13; ++i) {
    22           cout << "x["<<i<<"]= " << x[i] << endl;  // 超過沒有關係, 後果自行負責
    23        }
    24        cout << "\n --- --- ---\n";
    25        for(i=8; i<=13; ++i) {
    26           cout << "x["<<i<<"]= " << x.at(i)  << endl; // 會偵測 boundary
    27        }
    28     } catch(...) {
    29        cout << " Something wrong?\n";
    30     }
    31     cout << " === bye bye ===\n";
    32  }
bsd:tstvect% g++ tvec.cpp
bsd:tstvect% ./a.out
capa=10
size=10
x[9] = 9
x[10] = 10
x[11] = 11
x[12] = 12
x[13] = 13
after push_back:
capa=20
size=11
注意目前的 size !
x[8]= 8
x[9]= 9
x[10]= 3838
x[11]= 0
x[12]= 0
x[13]= 0

 --- --- ---
x[8]= 8
x[9]= 9
x[10]= 3838
 Something wrong?
 === bye bye ===
bsd:tstvect% exit
```