

STL

Standard Template Library.

vector

```
#include <iostream>
#include <vector>
using namespace std;

void main()
{
    int num;
    int i;

    printf("          :");
    scanf("%d",&num);
    vector<int> vi(num);

    for (i=0;i<num;i++) {
        vi[i]=i*2;
    }
    for (i=0;i<num;i++) {
        printf("vi[%d]=%dn",i,vi[i]);
    }
    printf("          %d          .n",vi.size());
}
```

map

map vector

```
std::vector<std::pair<K,V> > vec(map.begin(), map.end());
```

(boost)

```
std::sort(vec.begin(), vec.end(), boost::bind(&std::pair<K, V>::second, _1)
```

```
< boost::bind(&std::pair<K, V>::second, 2));
```

STL

```
template<template <typename> class P = std::less >
struct compare_pair_second {
    template<class T1, class T2> bool operator()(const
std::pair<T1,T2>&left, const std::pair<T1,T2>&right) {
        return P<T2>()(left.second, right.second);
    }
};
```

```
//
std::sort(v.begin(), v.end(), compare_pair_second<std::less>());

//
std::sort(v.begin(), v.end(), compare_pair_second<std::greater>());
```



std::less

std::greater

#include <functional>

가

- [How do I sort a vector of pairs based on the second element of the pair?](http://juggernaut.tistory.com/24)
- <http://juggernaut.tistory.com/24>

std::copy

dump

```
#include <iostream>
#include <vector>
#include <algorithm>
using namespace std;

template<typename C>
void dump(const char *desc, C c)
{
    cout.width(12);
    cout << left << desc << "=> ";
    copy(c.begin(),c.end(),ostream_iterator<typename C::value_type>(cout,"
"));
    cout << endl;
}
```

```
void main()
{
    int someNum[] = {1,1,2,3,5,8,13};
    vector<int> vi(&someNum[0], &someNum[7]);
    dump("      ",vi);
}
```

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