reverse()

将容器 [start, end) 内所有元素翻转。

```
1 #include <iostream>
2 #include <cstdio>
3 #include <vector>
4 #include <algorithm>
5 using namespace std;
7
   int main() {
8
9
        vector<int> v({1, 2, 3, 4});
10
        reverse(v.begin(), v.end());
11
12
13
       for(auto x : v)
            cout << x << " ";
14
15
16
       return 0;
17 }
```

```
1 #include <iostream>
2 #include <cstdio>
3 #include <vector>
4 #include <algorithm>
5 using namespace std;
7
  int main() {
8
9
        int a[10] = \{6, 7, 8, 9, 1, 2, 3, 5\};
10
        reverse(a + 0, a + 3 + 1);
11
12
       for(auto x : a)
          cout << x << " ";
13
14
15
       return 0;
16 }
```

unique

```
8
        vector<int> v({1, 1, 2, 2, 3, 4, 5});
9
10
        v.erase(unique(v.begin(), v.end()), v.end());
        /*
11
12
        int p = unique(v.begin(), v.end()) - v.begin();
13
        cout << p << endl;</pre>
14
        */
15
        /*
16
17
        for(int i = 0; i < p; i++)
18
           cout << v[i] << " ";
19
20
21
       for(auto x : v)
           cout << x << " ";
22
23
24
25
        return 0;
26 }
```

```
1 #include <iostream>
 2
   #include <cstdio>
 3 #include <algorithm>
   using namespace std;
 6 int main() {
 7
8
        int a[] = \{1, 1, 2, 2, 3, 4, 5\};
9
       int p = unique(a, a + 7) - a;
10
        for(int i = 0; i < p; i++)
11
12
            cout << a[i] << " ";</pre>
13
14
        return 0;
15 }
```

random_shuffle

```
1 #include <iostream>
2
   #include <cstdio>
   #include <algorithm>
3
4 #include <vector>
5 #include <ctime>
   using namespace std;
   int main() {
8
9
10
       srand(time(0));
11
12
       vector<int> v({1, 2, 3, 4, 5, 6});
13
14
        random_shuffle(v.begin(), v.end());
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```

```
15
16
        for(int x : v)
         cout << x << " ";
17
18
        puts("");
19
20
21
        sort(v.begin(), v.end(), greater<int>());
22
       for(int x : v)
23
           cout << x << " ";
24
25
26
       puts("");
27
        sort(v.begin(), v.end(), less<int>());
28
29
       for(int x : v)
30
          cout << x << " ";
31
32
33
       puts("");
34
35
       return 0;
36 }
```

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