### **Vector pop\_back() and back()**

The following table summarizes a few common functions dealing with the back (or last element) of a vector.

Table 9.6.1: Functions on the back of a vector.

| ***push\_back()*** | void push\_back(const int newVal);  Append new element having value newVal. | *// playersList initially 55, 99, 44 (size is 3)*  playersList.push\_back(77); *// Appends new element 77*  *// playersList is now 55, 99, 44, 77 (size is 4)* |
| --- | --- | --- |
| ***back()*** | int back();  Returns vector's last element. Vector is unchanged. | *// playersList initially 55, 99, 44*  cout << playersList.back(); *// Prints 44*  *// playersList is still 55, 99, 44* |
| ***pop\_back()*** | void pop\_back();  Removes the last element. | *// playersList is 55, 99, 44 (size 3)*  playersList.pop\_back(); *// Removes last element*  *// playersList now 55, 99 (size 2)*  cout << playersList.back(); *// Common combination of back()*  playersList.pop\_back(); *// followed by pop\_back()*  *// Prints 99. playersList becomes just 55*  cout << playersList.pop\_back(); *// Common error:*  *// pop\_back() returns void* |

Shown for vector<int>, but applies to other types.