Deque .. Artful

Same as vecor.

void showdq(deque <int> g)

{

deque <int> :: iterator it;

for (it = g.begin(); it != g.end(); ++it)

cout << " "<< \*it;

cout << '\n';

}

int main()

{

deque<int> first; // empty deque of ints

deque<int> second (4,100); // four ints with value 100

deque<int> third (second.begin(),second.end()); // iterating through second

deque<int> fourth (third); // a copy of third

int myints[] = {16, 2, 77, 29};

deque<int> fifth (myints, myints + sizeof(myints) / sizeof(int) );

cout << "The contents of fifth are:";

for (std::deque<int>::iterator it = fifth.begin(); it!=fifth.end(); ++it)

cout << ' ' << \*it;

cout <<endl;

deque <int> gquiz;

gquiz.push\_back(10);

gquiz.push\_front(20);

gquiz.push\_back(30);

gquiz.push\_front(15);

cout << "The deque gquiz is : ";

showdq(gquiz);

cout << "\ngquiz.size() : " << gquiz.size();

cout << "\ngquiz.max\_size() : " << gquiz.max\_size();

cout << "\ngquiz.at(2) : " << gquiz.at(2);

cout << "\ngquiz.front() : " << gquiz.front();

cout << "\ngquiz.back() : " << gquiz.back();

cout << "\ngquiz.pop\_front() : ";

gquiz.pop\_front();

showdq(gquiz);

cout << "\ngquiz.pop\_back() : ";

gquiz.pop\_back();

showdq(gquiz);

}

Output

The contents of fifth are: 16 2 77 29

The deque gquiz is : 15 20 10 30

gquiz.size() : 4

gquiz.max\_size() : 1073741823

gquiz.at(2) : 10

gquiz.front() : 15

gquiz.back() : 30

gquiz.pop\_front() : 20 10 30

gquiz.pop\_back() : 20 10