Computer Programming II — Midterm Exam 1

2023-4-9

1. Please write the member function vector::vector( const vector &right ) in the file Student ID - mid1-1.h which implement the member function vector( const vector &right ) in STL class template vector.

2. Please write the member function vector::operator== in the file Student ID - mid1-2.h which implement the member function operator== in STL class template vector.

3. Please write the member function vector:: push\_back in the file Student ID - mid1-3.h which implement the member function push\_back in STL class template vector.

4. Please write the member function vector:: resize in the file Student ID - mid1-4.h which implement the member function resize in STL class template vector.

5. Please complete the C++ program in Student ID - mid1-5.cpp which solves UVa 10083 - Division.

Grading rule

Output correct (Accepted):

5 points vector( const vector &right )

5 points bool operator==( const vector< Ty > &left, const vector< Ty > &right )

5 points vector& operator=( const vector &right )

20 points void push\_back( const value\_type &val )

20 points void resize( const size\_type newSize )

5 points bool operator<( const HugeInteger &right ) const

20 points void operator-=( HugeInteger &op2 )

20 points void operator\*=( HugeInteger &op2 )

20 points HugeInteger operator/( HugeInteger &op2 )

Output not completely correct (Accepted):

4 points vector( const vector &right )

4 points bool operator==( const vector< Ty > &left, const vector< Ty > &right )

4 points vector& operator=( const vector &right )

18 points void push\_back( const value\_type &val )

18 points void resize( const size\_type newSize )

4 points bool operator<( const HugeInteger &right ) const

18 points void operator-=( HugeInteger &op2 )

18 points void operator\*=( HugeInteger &op2 )

18 points HugeInteger operator/( HugeInteger &op2 )