ISTANBUL KULTUR UNIVERSITY COMPUTER ENGINEERING OBJECT ORIENTED PROGRAMMING, HOMEWORK #2

According to following program execution, implement the **inf int** class according to related *constructors, member functions and operator overloadings.*

```
int main() {
//constructors
inf_int x1(19);
                       //parameter is int therefore you need to convert
inf_int x2("125");
                       //value is "0", default constructor
inf_int x3;
\inf_{x_{4}(-97)};
                       //be careful about minus sign
inf_int x5("-35");
                       //be careful about minus sign
//member functions
x2.deleteFirstDigit();
                               //new value is "25"
                               //new value is "42"
x3.setValue(42)
                               // new value is "44"
x1.add(x2);
x1.changeSign();
                               // new value is "44" with the related sign
x1.print();
                               // write "-44" to the screen
                               //new value is "4225", string addition
x3.concatenate(x2);
                               // deep copy for dynamic variables
x4=x3;
//operator overloading
x3++;
                               // new value is "4226"
                               //operator overloading for post increment
                               // BE CAREFUL ABOUT MINUS SIGN
                               // new value is "4129"
x5=x3+x2;
                               //operator overloading for addition
                               // BE CAREFUL ABOUT MINUS SIGN
}
Additional Imlementations
1) Write a copy constructor as follows;
        inf int(const inf int& x);
                                       // (1) copy constructor
                                       // other member functions should be here but they are not shown.
```

2) Write a destructor for the class. (be careful about copying the dynamic variable(s) in the implementation of member functions)

Notes:

- The class must start as follows.
- You can write additional instance variables and functions.
- However you need to use digit as (char*) for storing data and processing it.
- BE CAREFUL THERE IS NO SIZE LIMIT FOR INF_INT.