

CSCI 136 C++ programming

Lab exercise 11

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Assume the existence of class Rat with operators + and << properly overloaded. Modify the collection of Rats that we did in the last lab exercise to dynamically allocate memory for the array. This means that you also need to provide a destructor, a copy constructor, and an assignment operator.

```
class Collection {
private:
    Rat * c; //this is changed
    int s; //size of collection

public:
    Collection( ... , int s) {
        this->s=s;
        //allocate c dynamically to have s Rats
        //set c[0]...c[s-1] to the first parameter
    }

    set(int pos, ... ) {
        //set c[pos] to the provided parameter
    }

    int size() {
        return s;
    }

    Rat average() {
        //compute the average of the first s Rats and return it
    }

    //add the destructor, the copy constructor, and the assignment operator
};
```