SimpleGraph.h

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// Created by Nikolay Yakovets on 2018-01-31.
//
#ifndef QS SIMPLEGRAPH H
#define QS SIMPLEGRAPH H
#include <unordered map>
#include <unordered set>
#include <vector>
#include <iostream>
#include <regex>
#include <fstream>
#include "Graph.h"
class SimpleGraph : public Graph {
public:
    std::vector<std::pair<uint32 t,uint32 t>>> adj;
protected:
    uint32 t V;
    uint32 t L;
public:
    SimpleGraph() : V(0), L(0) {};
    ~SimpleGraph() = default;
    explicit SimpleGraph(uint32 t n);
    uint32 t getNoVertices() const override ;
    uint32 t getNoEdges() const override ;
    uint32 t getNoDistinctEdges() const override ;
    uint32 t getNoLabels() const override ;
    void addEdge(uint32_t from, uint32_t to, uint32_t edgeLabel) override;
    void readFromContiguousFile(const std::string &fileName) override ;
    void setNoVertices(uint32 t n);
    void setNoLabels(uint32 t noLabels);
};
#endif //QS SIMPLEGRAPH H
```