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// !Menu.h
#pragma once
#include "iostream"
#include "vector"
#include "MenuItem.h"
class Menu {
private:
    std::string title;
    std::vector<MenuItem*> menuItems;
public:
    explicit Menu();
    Menu(std::string name);
    ~Menu();
    void append(MenuItem* menuItem);
    void print();
    void setName(std::string name);
    std::string getName();
    void awaitUserInput();
};

// !Menu.cpp
#include "Menu.h"
Menu::Menu() {}
Menu::Menu(std::string name) {
    this->title = name;
    menuItems = {};
}
Menu::~~Menu() {
    for (auto item : this->menuItems) {
        delete item;
    }
    menuItems.clear();
}
void Menu::append(MenuItem* menuItem) {
    menuItems.push_back(menuItem);
}
void Menu::print() {
    std::cout << this->title << std::endl;
    for (auto menuItem : menuItems) {
        std::cout << menuItem->getId() << " "
        << menuItem->getTitle() << std::endl;
    }
}
void Menu::setName(std::string name) {
    this->title = name;
}
std::string Menu::getName() {return this->title;
}

void Menu::awaitUserInput() {
    this->print();
    int input = 0;
    std::cout << " >> Select: "; std::cin >> input;

    for (auto menuItem : this->menuItems) {
        if (menuItem->getId() == input) {
            menuItem->executeCallback();
            awaitUserInput();
        }
    }
    std::cout << "!Incorrect selection!" << std::endl;
    awaitUserInput();
}

```