







Gestäo de Yoos









Algoritmos e Estruturas de Dados

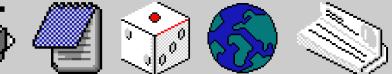








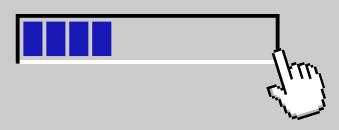








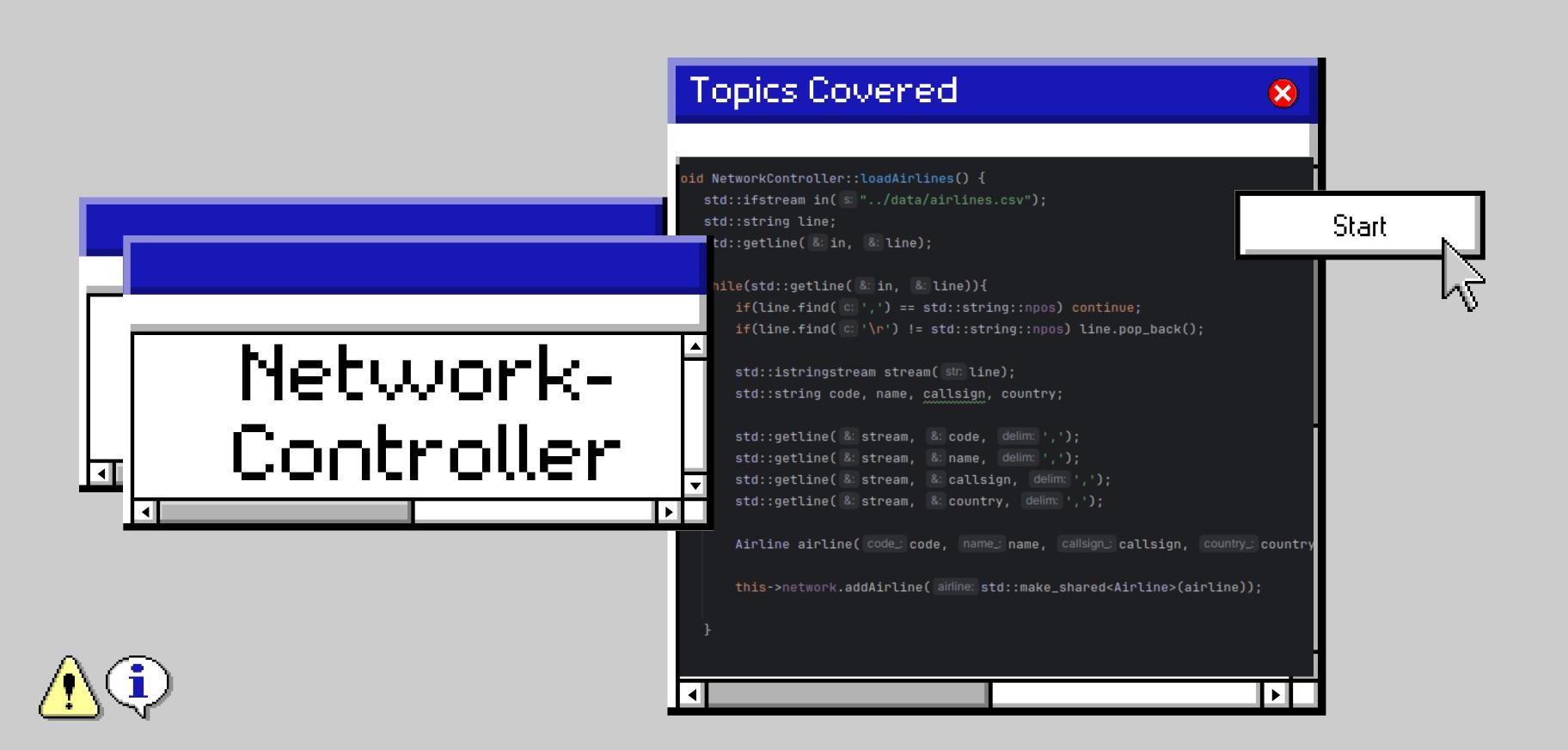
Enumeração de Classes

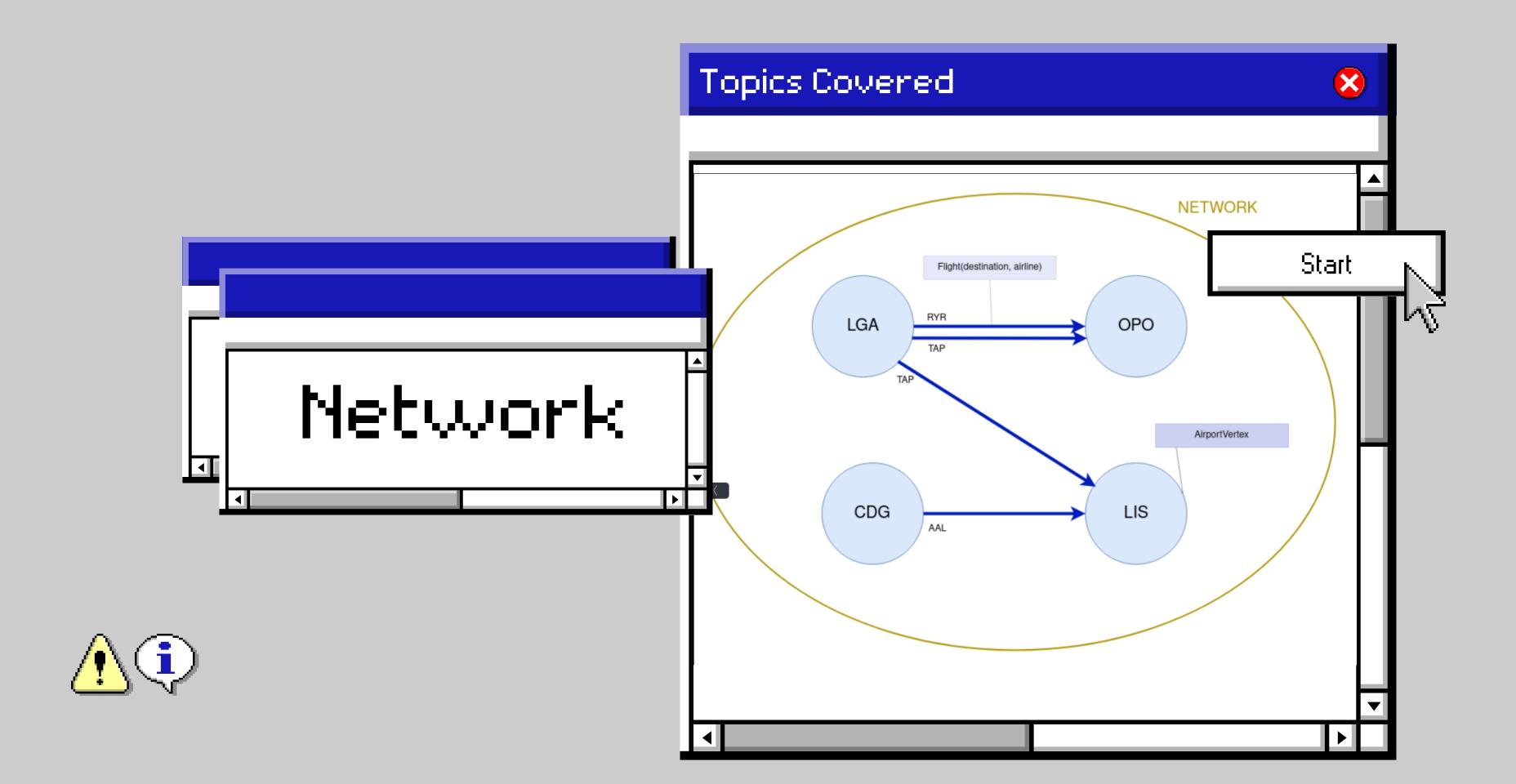


Voltar à página inicial

Classes	Atributos
Airline	code, name, callsign, country
Airport	code, name, city, country, latitude, longitude
AirportVertex	airport, flights, low, num, visited
SearchFilter	limitAirlines, filterAirlines, filterCities, airlinesToUse, citiesToStop
Flight	airlineCode, dest
Menu	controller, running
Network	flightCount, airportSet, airlineMap, cityMap
NetworkController	network

NetworkController





reachableWithNStops

Complexidade: 0(v + e)

```
void NetworkController::reachableWithNStopsD≦
    vertex->setVisited( visited_: true);
   reachable.push_back(vertex);
    if(nStops >= 0){
        for(Flight flight: vertex->getFlight
            if(!flight.getDestination()->isV
                counter += 1;
                this->reachableWithNStopsDFS
```













articulationAirports

Complexidade: 0(v + e)

```
td::unordered_set<std::string> NetworkController::articulationAirports() {
    std::unordered_set<std::string> res;
    std::stack<std::string> s;
    int i = 0;
    this->network.resetFlags();

for(const std::pair<std::string, std::shared_ptr<AirportVertex>>& v : this->network.getAirportSet()){
    if(!v.second->isVisited()){
        dfs_art( vertex: v.second, &: s, &: res, &: i);
    }
}
return res;
```

```
oid NetworkController::dfs_art(std::shared_ptr<AirportVertex> vertex, std::stack<std
                               std::unordered_set<std::string> &result, int &i) {
  int childCount = 0;
  i++;
  vertex->setNum( num_: i);
  vertex->setLow(i);
  vertex->setVisited(true);
  s.push( x: vertex->getAirportCode());
  for(auto edge :Flight : vertex->getFlights()){
      auto w : shared_ptr<AirportVertex> = edge.getDestination();
      if(!w->isVisited()){
          childCount++;
          dfs_art( vertex: w, &: s, &: result, &: i);
          vertex->setLow(std::min(vertex->getLow(), w->getLow()));
          if(w->getLow() >= vertex->getNum() && vertex->getNum() != 1){
              result.insert( x: vertex->getAirportCode());
      else if(this->inStack( stack: s, info: w->getAirportCode())){
          vertex->setLow(std::min(vertex->getLow(), w->getNum()));
  s.pop();
  if(vertex->getNum() == 1 && childCount > 1){
      result.insert( x: vertex->getAirportCode());
```









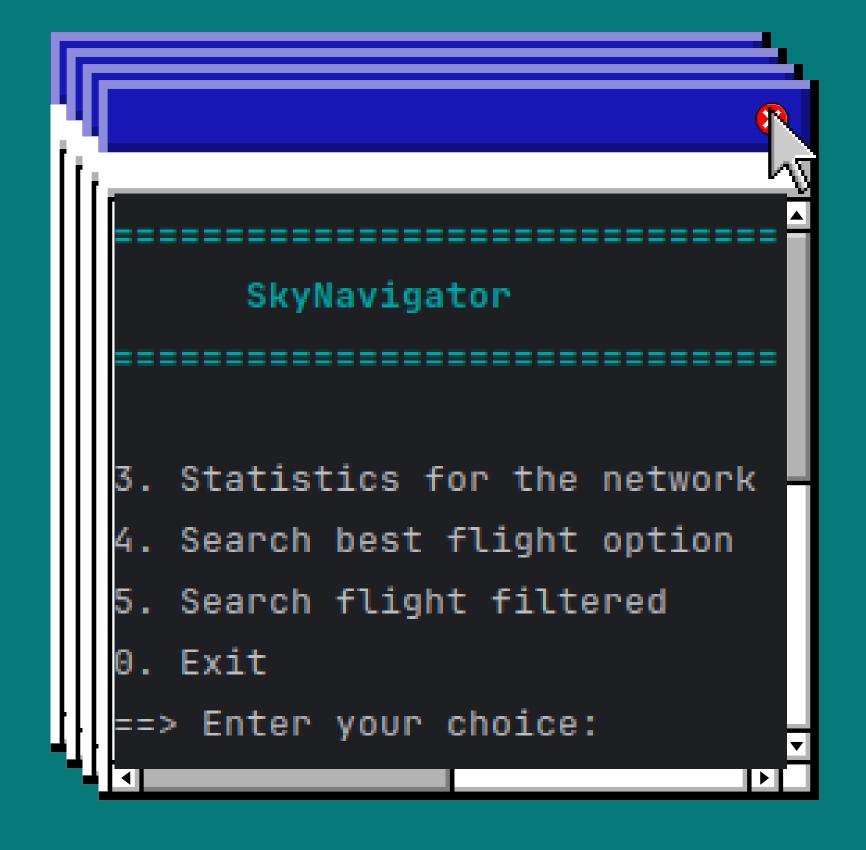




Menu 🗣

Descrição

- 3. Dados da network
- 4. Escolher a melhor opção de voo
- 5. Filtrar o voo
- 0. Sair









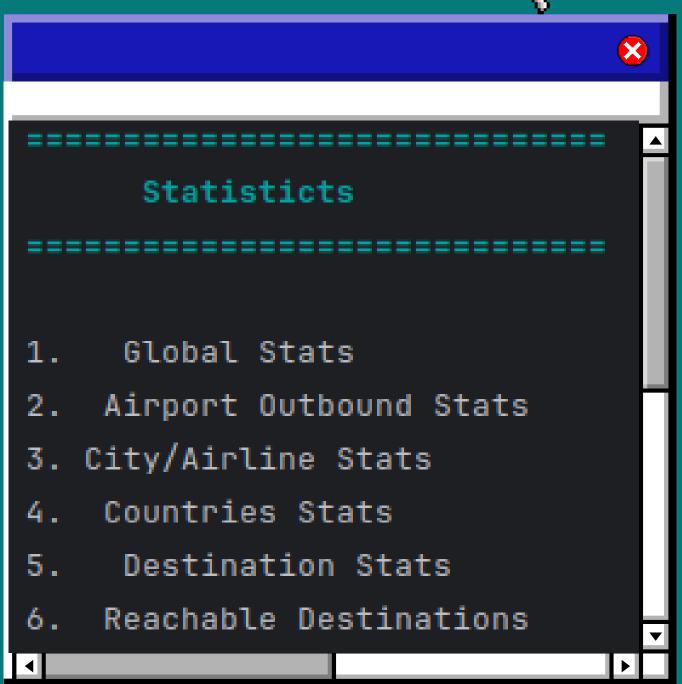




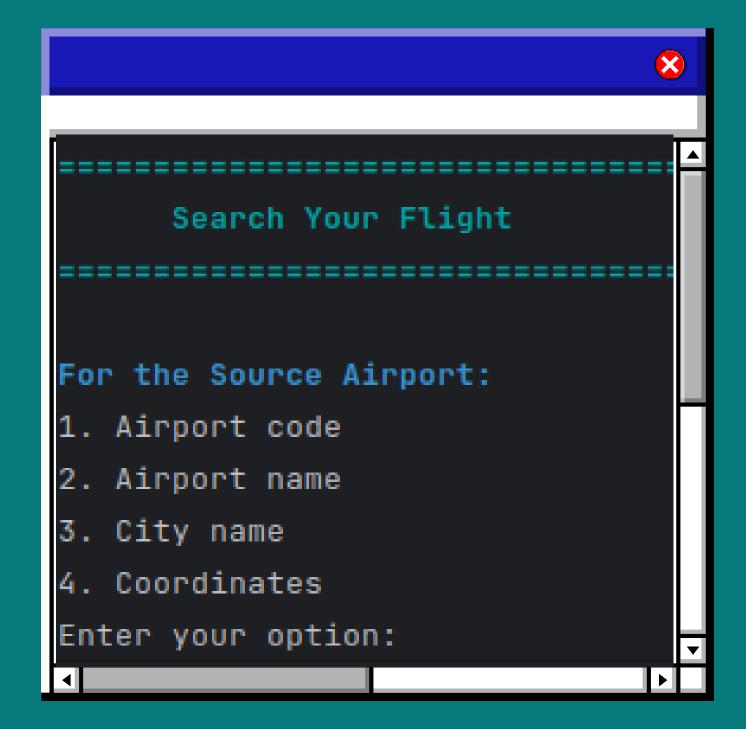


Dados





Pesquisar voo









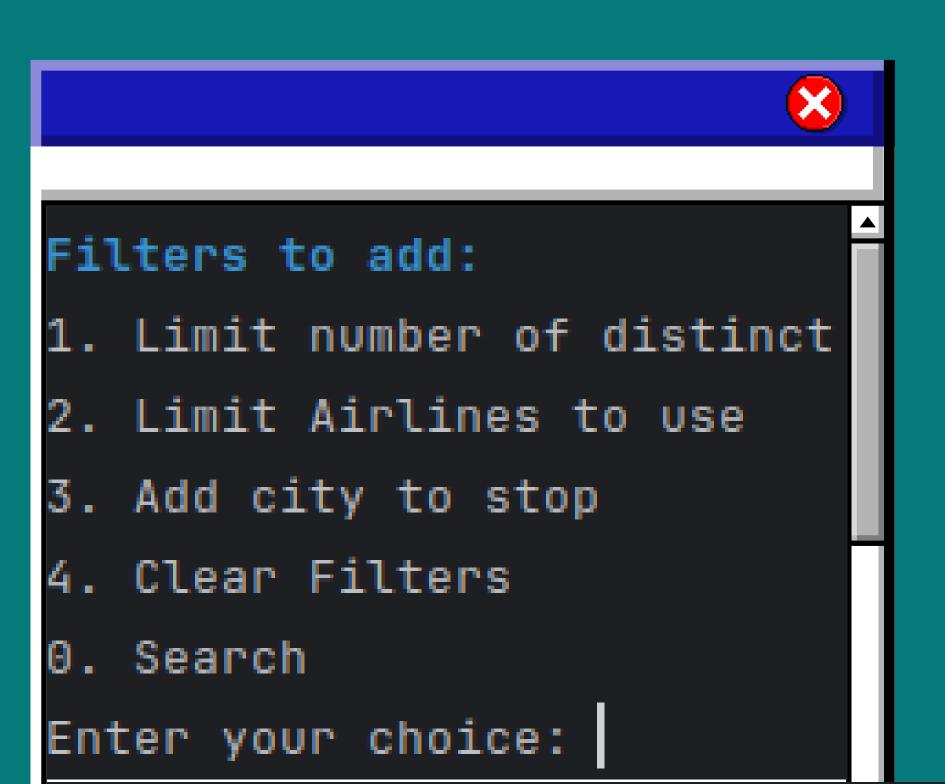








Filtros











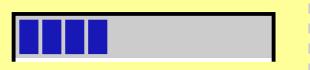








Filtros



Demonstração ao Vivo

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