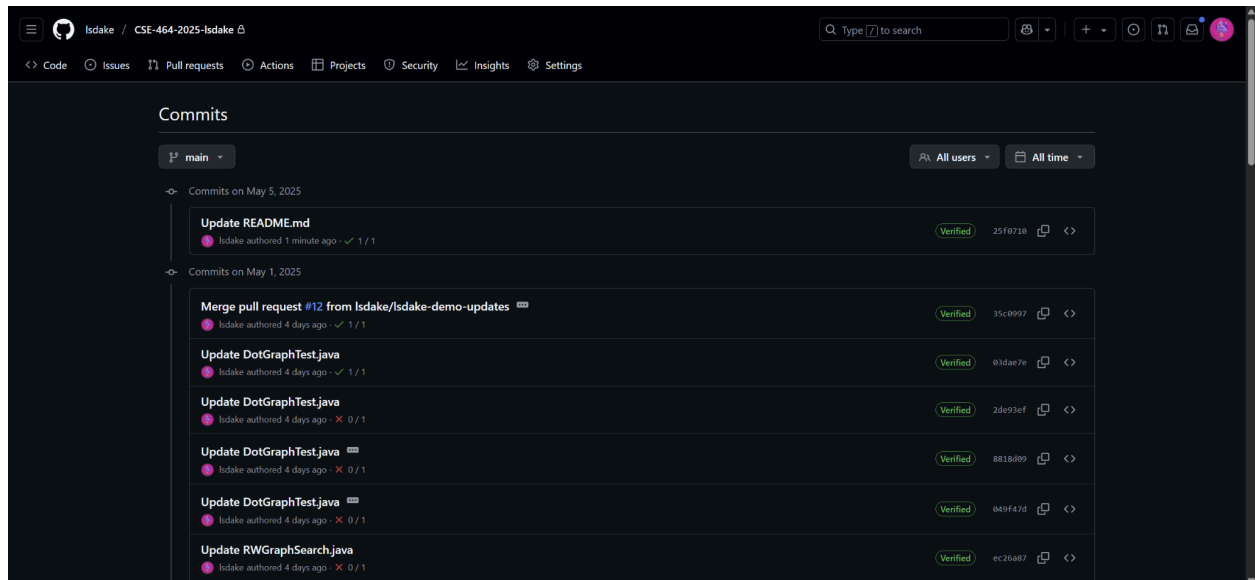


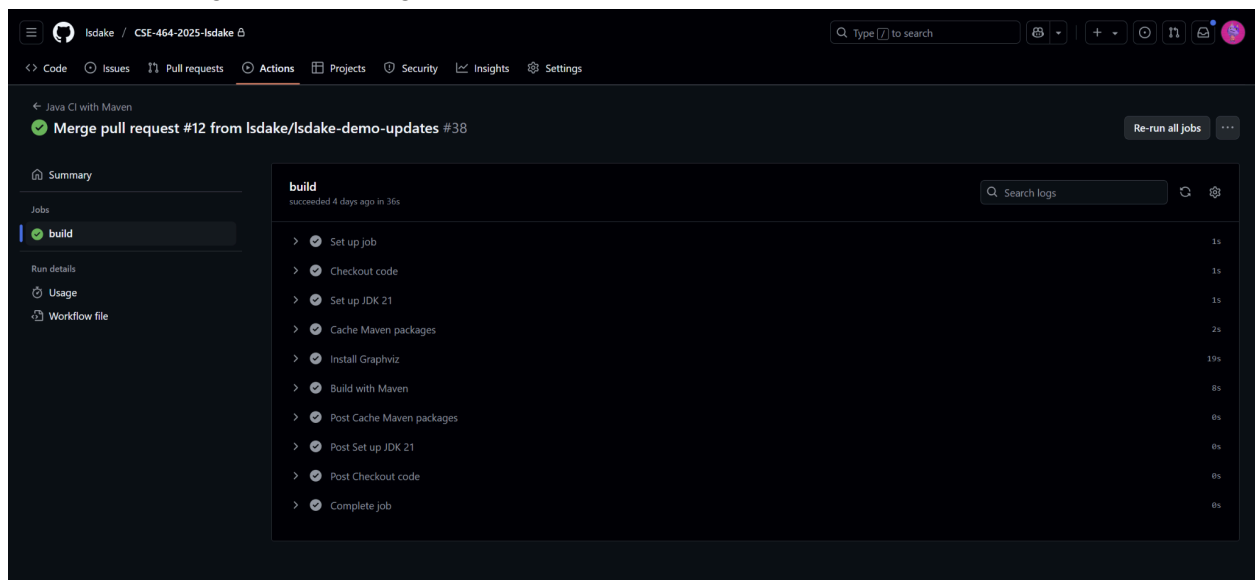
Go to my main [README.md](#) in the program for more in-depth info!

<https://github.com/Isdake/CSE-464-2025-Isdake>

Github Commits:



Continuous Integration Working:



Search Algorithms:

- Given a graph.dot file as follows:

```
digraph G {  
    A -> B;  
    A -> C;  
    B -> D;  
    C -> E;  
    D -> F;  
    E -> F;  
}
```

- BFS
 - System.out.println(graph.GraphSearch("A", "F", graph.getBFS()).toString());
should output
 - A -> B -> D -> F
- DFS
 - System.out.println(graph.GraphSearch("A", "F", graph.getDFS()).toString());
should output
 - A -> C -> E -> F

- Random Search Algorithms:

- Given a graph.dot file as follows:

```
digraph G {  
    A -> B;  
    B -> C;  
    C -> D;  
    D -> A;  
    A -> E;  
    E -> F;  
    G -> C;  
    E -> G;  
    F -> H;  
    G -> H;  
    H -> D;  
}
```

- Fully Random Search
 - Given `startNode == "A"` and `endNode == "H"`:
 - `System.out.println(graph.GraphSearch(startNode, endNode, Algorithm.BFS).getPathArray());`
 should output one of the following:
 - `a->e->g->h` (Target node!)
 - `a->e->f->h` (Target node!)
 - `a->b->c->d` (Dead end)
 - `a->e->g->c->d` (Dead end)

- Unvisited Random Search
 - Given `startNode == "A"` and `endNode == "H"`:
 - `System.out.println(graph.GraphSearch(startNode, endNode, Algorithm.BFS).getPathArray());`
 should output one of the following statements:
 - `a->e->f->h` (Target node!)
 - `a->e->g->h` (Target node!)
 - `a->b->c->d` (Dead end)

- Unvisited Random Search
 - Given `startNode == "A"` and `endNode == "H"`:
 - `System.out.println(graph.GraphSearch(startNode, endNode, Algorithm.BFS).getPathArray());`
 should output one of the following statements:
 - `a->e->f->h` (Target node!)
 - `a->e->g->h` (Target node!)
 - `a->e->g->c->d` (Dead end)
 - `a->b->c->d` (Dead end)