Sample Screenshots

TEST 1: BFS

SMALL MAP

MEDIUM MAP

TEST 2: UCS

SMALL MAP

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          EXPLORER
         VITYARTHI_PROJECT_MULTIALGO-MAIN
                                                                                        def main():
                                                                                          parser.add_argument("--goal", required=True, help="format: x,y")
parser.add_argument("--diagonals", type=int, default=0)
parser.add_argument("--log", default="out/run.log")
args = parser.parse_args()
          ① README.md
                                                                                             start = tuple(map(int, args.start.split(",")))
goal = tuple(map(int, args.goal.split(",")))
           F requirements.txt
=
                                                                                             g = grid.Grid.from_file(args.map, diagonals=bool(args.diagonals))
                                                                                             if args.algo == "bfs";
   path, stats = search.bfs(g, start, goal)
elif args.algo == "ucs":
   path, stats = search.ucs(g, start, goal)
else:
                                                                                              h = heuristics.manhattan
path, stats = search.astar(g, start, goal, h)
                                                                                              print("Path:", path)
print("Stats:", stats)
                                                                                                                                                                                                                                                                                      PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
                                                                             PS C:\Users\LENONO\Videos\VITyarthi Project MultiAlgo-main> python run.py -algo ucs -map maps/small.txt -start 0.0 -goal 4.4
Path: [(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (1, 4), (2, 4), (3, 4), (4, 4)]
Stats: ('nodes_expanded': 20, 'path_cost': 8)
PS C:\Users\LENONO\Videos\VITyarthi Project_MultiAlgo-main>
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MEDIUM MAP

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LARGE MAP

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D
              EXPLORER
            VITYARTHI_PROJECT_MULTIALGO-MAIN
                                                                                                                   parser.add_argument("--goal", required=True, help="format: x,y")
parser.add_argument("--diagonals", type=int, default=0)
parser.add_argument("--log", default="out/run.log")
args = parser.parse_args()
                                                                                                                    start = tuple(map(int, args.start.split(",")))
goal = tuple(map(int, args.goal.split(",")))

    F requirements.txt

6
                                                                                                                    if args.algo == "bfs":
   path, stats = search.bfs(g, start, goal)
elif args.algo == "ucs":
   path, stats = search.ucs(g, start, goal)
                                                                                                                    h = heuristics.manhattan
path, stats = search.astar(g, start, goal, h)
                                                                                                                    print("Path:", path)
print("Stats:", stats)
                                                                                                                                                                                                                                                                                                                                                          ☑ powershell 十~ Ⅲ 盦 ··· ^ ×
                                                                                                PS C:\Users\LENOVO\Videos\VITyarthi_Project_MultiAlgo-main> python run.py --algo ucs --map maps/large.txt --start 0.0 --goal 10.10

Path: [(0, 0), (0, 1), (0, 2), (0, 3), (0, 4), (0, 5), (0, 6), (1, 6), (2, 6), (3, 6), (4, 6), (5, 6), (6, 6), (7, 6), (8, 6), (9, 6), (10, 6), (11, 6), (12, 7), (12, 8), (11, 8), (10, 8), (10, 9), (10, 10)]

Stats: ['nodes expanded': 138, 'path cost: 24]

PS C:\Users\LENOVO\Videos\VITyarthi_Project_MultiAlgo-main>
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TEST 3: A* (A STAR) WITH DIAGONALS

SMALL MAP

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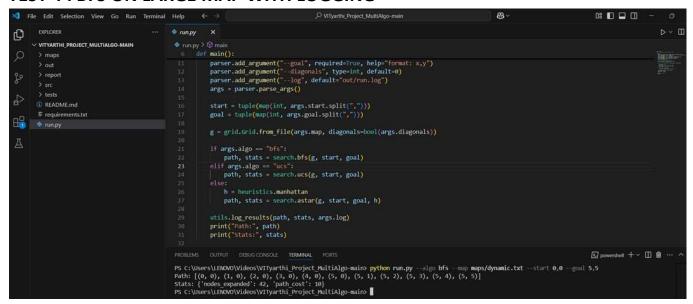
MEDIUM MAP

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0
           EXPLORER.
          VITYARTHI_PROJECT_MULTIALGO-MAIN
           > maps
                                                                                                    parser.add_argument("-goal", required=True, help="format: x,y")
parser.add_argument("-diagonals", type=int, default=0)
parser.add_argument("-log", default="out/run.log")
args = parser.parse_args()
           ① README.md
                                                                                                   start = tuple(map(int, args.start.split(",")))
goal = tuple(map(int, args.goal.split(",")))
           F requirements.txt
                                                                                                    g = grid.Grid.from_file(args.map, diagonals=bool(args.diagonals))
                                                                                                     | path, stats = search.bfs(g, start, goal)
elif args.algo == "ucs":
path, stats = search.ucs(g, start, goal)
                                                                                                       else:
    h = heuristics.manhattan
    path, stats = search.astar(g, start, goal, h)
                                                                                                    print("Path:", path)
print("Stats:", stats)
                                                                                                                                                                                                                                                                                                           ☑ powershell + ∨ □ 🔒 ···
                                                                                    PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
                                                                                  PS C:\Users\LENOVO\Videos\VITyarthi_Project_MultiAlgo-main> python run.py -algo astar -map maps/medium.txt -
Path: [(0, 0), (0, 1), (1, 2), (2, 2), (3, 3), (3, 4), (2, 5), (3, 6), (4, 7), (5, 8), (6, 8), (7, 9), (8, 8)]
Stats: ('nodes_expanded': 16, 'path_cost': 12)
PS C:\Users\LENOVO\Videos\VITyarthi_Project_MultiAlgo-main>
```

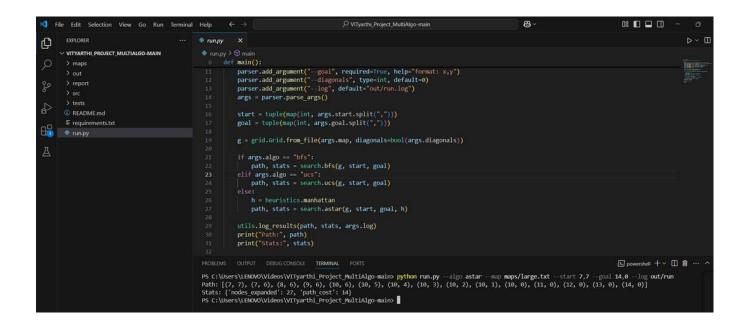
LARGE MAP

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| File | Edit | Selection | View | Go | Run | Terminal | Help | C | PYTIJarthi | Project | MultiVigo-main | B | DEPLOSES | C |
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TEST 4: BFS ON LARGE MAP WITH LOGGING



TEST 5: A* ON LARGE MAP, LOG TO CUSTOM FILE



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