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|--|---|-------------|--|--|-----------------------------|
| initialization | Х | У | dist:dictionary | q:priority queue | prev:dictionary |
| iteration 1.1 iteration 1.2 iteration 2 | 0 | 1 2 | 0 1 2 0 5 0 5 1 0 1 2 3 | (0,0) (1,5) (2,1) (2,1) (2,1) (2,1) (3,5) (2,1) (4,5) (2,1) (5,1) (6,0) (7,5) (2,1) (7,5) (2,1 | 1 2 0 0 0 1 2 3 |
| iteration 2.1 iteration 3 iteration 3.1 iteration 3.2 | 2 | 3 1 3 | 0 5 1 7 0 1 2 3 0 2 1 7 0 2 1 3 | ← (2,1) (3,7) ← ← (3,7) ← ← (3,3) ← | 1 2 3 1 0 1 1 0 2 |
| iteration 4 iteration 4.1 iteration 4.2 | 3 | 0 | 0 1 2 3 4 0 2 1 7 0 2 1 3 7 | (3, 3) (4, 7) (| 1 2 3 4 1 0 2 1 0 2 3 |
| iteration 5 iteration 5.1 iteration 5.2 iteration 5.3 | 4 | 0 1 2 | 0 1 2 3 4 0 2 1 3 7 0 2 1 3 7 0 2 1 3 7 | ← (4, 7) ← | 1 2 3 4 |

The final path is $0 \rightarrow 2 \rightarrow 1$ with a cost of 2