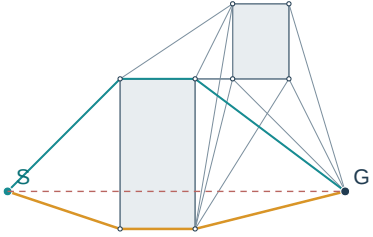
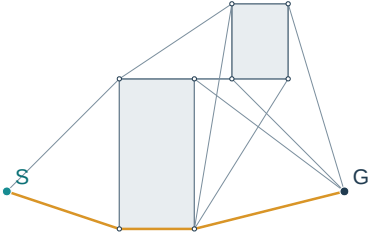
a Full visibility graph



24 visible edges

Lower route 9.285; upper route 11.243 units

b Tangent-reduced visibility graph



21 retained edges · 3 removed

Same minimum path length: 9.285 units

Shortest route

Alternative route

Collision-free edge

Rejected direct segment