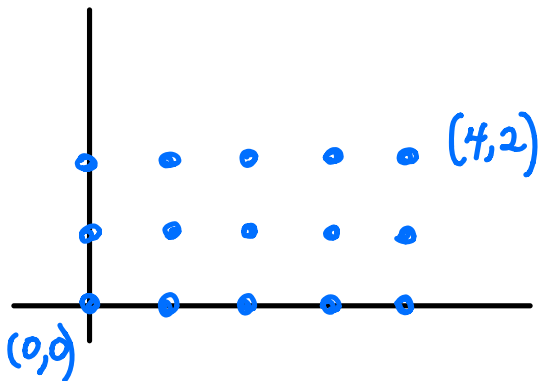


Practice with
Tree shortcutting algorithm for Traveling
Salesperson Problem



- ① For the 15 points above, using Euclidean distance $d(u,v)$ as the cost for traveling between u and v , find a TSP tour C_{shortcut} via the tree-shortcutting algorithm.
- ② Find an optimal (shortest) C_{optimal} for these points, and prove its optimality.
- ③ What was $\frac{d(C_{\text{shortcut}})}{d(C_{\text{optimal}})}$ for your choice?