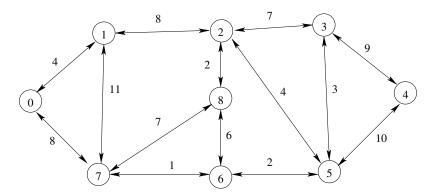
EA 2022/2023 PL exercises

Exercise 1 Find the shortest path in the two following networks from node 0 to node 4, using Dijkstra and Bellman-Ford algorithms. Indicate the shortest path tree and the negative cycle, if it exists.



 $\textbf{Figure 1} - Network \ 1$

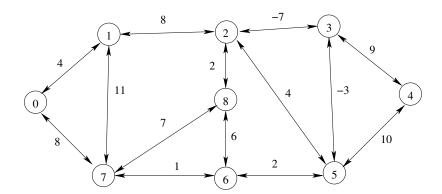


Figure 2 – Network 2

EA 2022/2023 PL exercises

Exercise 2 Find the all-pairs shortest path in the following network, using the algorithm of Floyd-Warshall. Draw the resulting reachability graph.

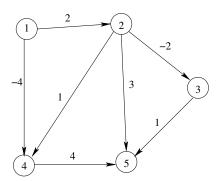


Figure 3 – Network 3

Exercise 3 Read the problem A joint vacation problem! in EA2023_PL in Mooshak and solve it using the techniques discussed above.