



Homework — Algorithms and Data Structures

Dimitri Tabatadze · 23:24, December 20, 2023



Worksheet 9

1. (a) • n = 2:



Figure 1: bitonic merge network for n=2

• n = 4:



Figure 2: bitonic merge network for n=4

• n = 8:

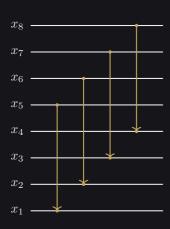


Figure 3: bitonic merge network for n = 8

(b) • n = 2:



Figure 4: bitonic sorter network for n=2

• n = 4:

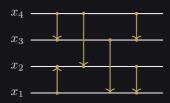


Figure 5: bitonic sorter network for n=4

• n = 8:

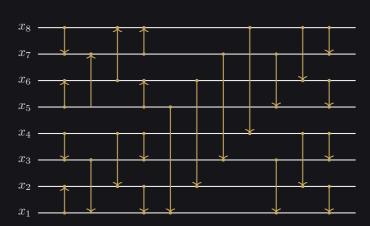


Figure 6: bitonic sorter network for n = 8

2.