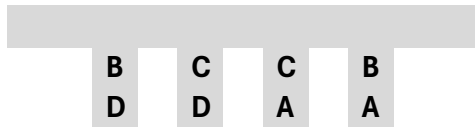


Day 23

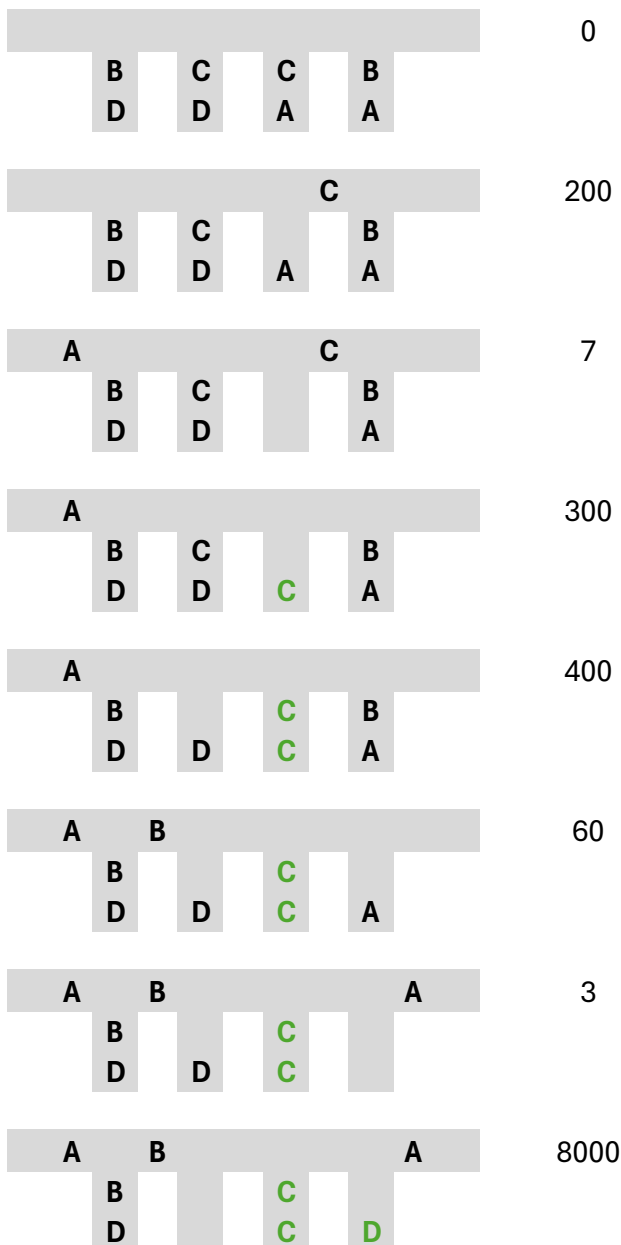
Part 1

Starting configuration



Lower Bound: $17+110+900+17000=18027$

Solution



<div> <div>A</div> <div> <div>B</div> <div>D</div> </div> <div> <div>B</div> </div> <div> <div>C</div> <div>C</div> </div> <div> <div>D</div> </div> <div>A</div> </div>	30
<div> <div>A</div> <div> <div>D</div> </div> <div> <div>B</div> <div>B</div> </div> <div> <div>C</div> <div>C</div> </div> <div> <div>D</div> </div> <div>A</div> </div>	40
<div> <div>A</div> <div> <div>B</div> <div>B</div> </div> <div> <div>C</div> <div>C</div> </div> <div> <div>D</div> <div>D</div> </div> <div>A</div> </div>	9000
<div> <div> <div>A</div> </div> <div> <div>B</div> <div>B</div> </div> <div> <div>C</div> <div>C</div> </div> <div> <div>D</div> <div>D</div> </div> <div>A</div> </div>	3
<div> <div> <div>A</div> <div>A</div> </div> <div> <div>B</div> <div>B</div> </div> <div> <div>C</div> <div>C</div> </div> <div> <div>D</div> <div>D</div> </div> </div>	8
Total:	18051