Minimum Time to Cross Bridge

Pb.2
Solution

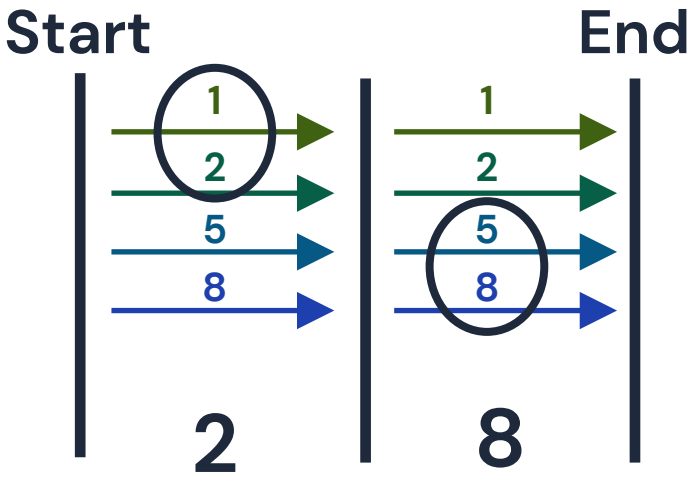
Use **Dynamic Programming** to solve the minimum time to cross the bridge.
"optimal substructure"

Given that
Bridge **PQ**

Person **A** = **1**
Person **B** = **2**
Person **C** = **5**
Person **D** = **8**

4 persons must cross the bridge twice, 2 at a time
The minimum sum *(pairing)* would be 2+8 = **10**.

Draw an illustration. **Pick 2 lines per slot.**



Answer *Person A and Person B cross the bridge first, then Person C and Person D follow.*