

Four Frogs: 1s 1J 1s 2J 1s 3J 1s 4J 1s 3J 1s 2J 1s 1J 1s
 Five Frogs: 1s 1s 1s 2J 1s 3J 1s 4J 1s 5J 1s 4J 1s 3J 1s
 2J 1s 1J 1s

Six Frogs: 1s 1s 1s 2J 1s 3J 1s 4J 1s 5J 1s 6J 1s 5J
 1s 4J 1s 3J 1s 2J 1s 1s 1s

S = Slide J = Jump
 Principle: Keep an empty space between two frogs of the same color.

The pattern: I noticed that the number of slides is always the same, one. I also noticed that the number of jumps goes up to the number of one side of frogs and back down again. For example, if there are four frogs on each side, the number of jumps will go 1, 2, 3, 4, 3, 2, 1. And the number of slides stays at one.