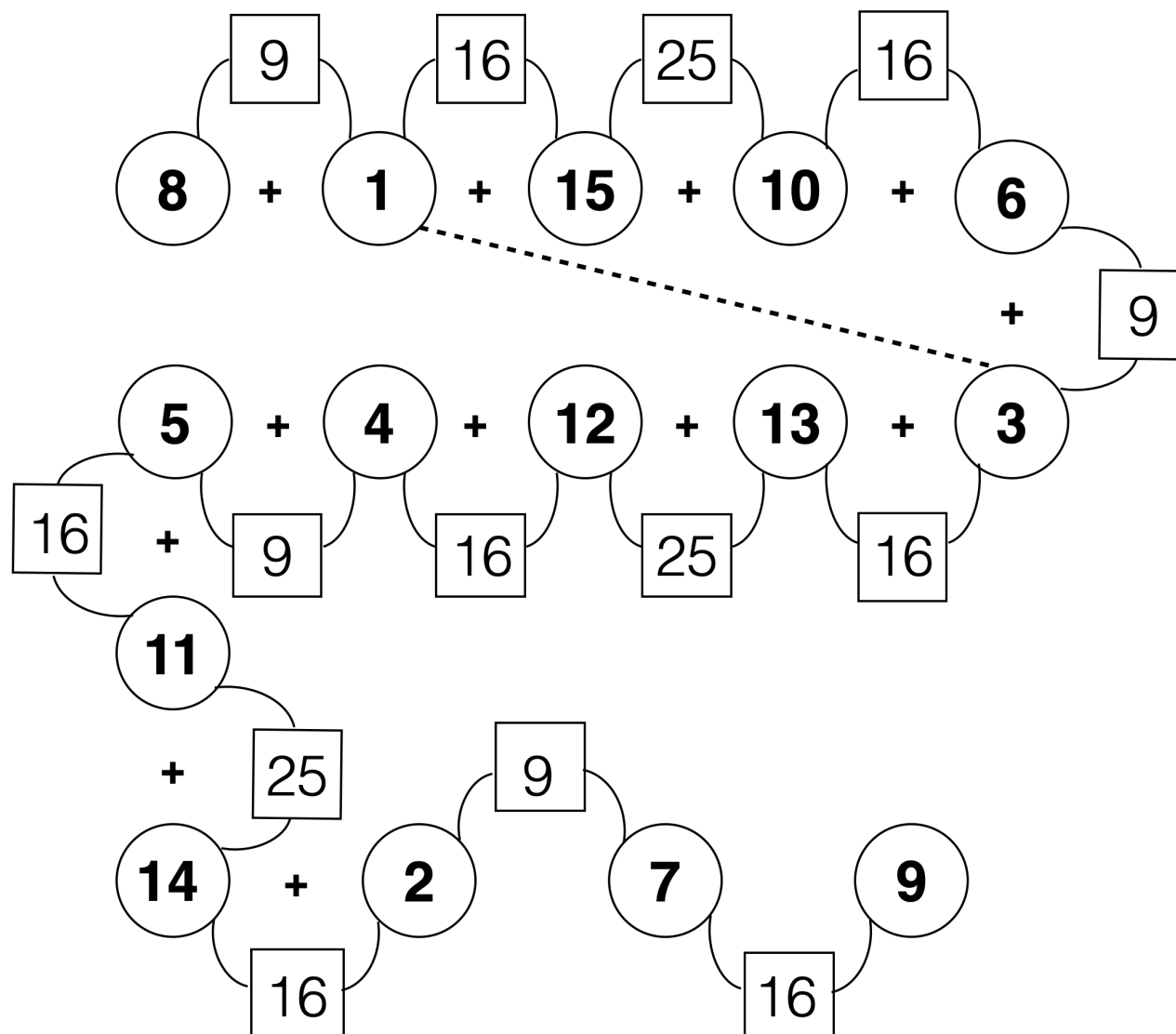




Here are the solutions to the **Square Sum 1-15 Puzzle**.

We've also drawn in the dashed line to show that 1 and 3 also sum to a square.

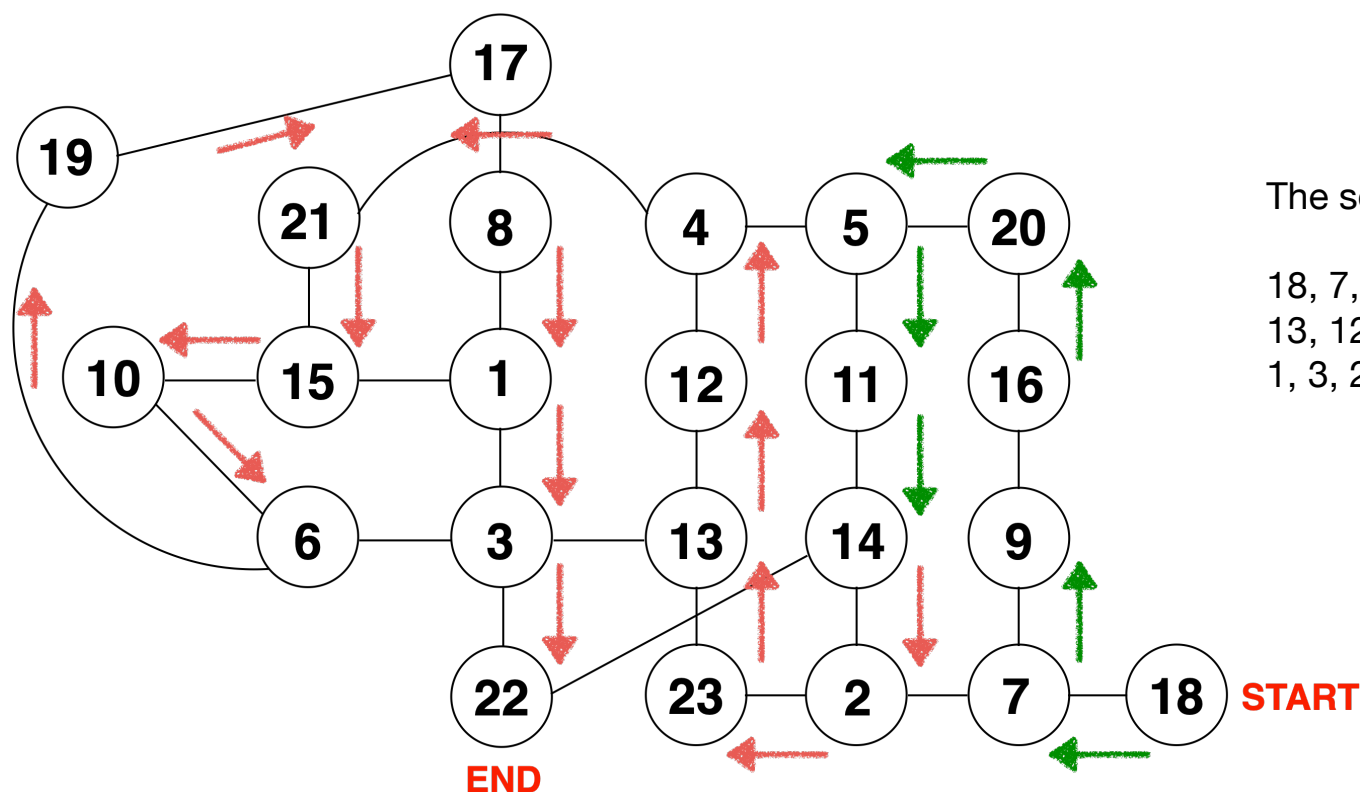
You could ask students to explain (using this solution diagram) why putting 1 and 3 next to each other in the sequence will prevent us from finding a valid solution.



Here are the solutions to the **Square Sums 1-23 Puzzle**.

We've found two routes that visit every number exactly once. See both below.

They both start in the same way with the green arrows, then they differ after number 14.



The solution is:

18, 7, 9, 16, 20, 5, 11, 14, 2, 23,
13, 12, 4, 21, 15, 10, 6, 19, 17, 8,
1, 3, 22

The solution is:

18, 7, 9, 16, 20, 5, 11, 14, 22, 3, 1,
8, 17, 19, 6, 10, 15, 21, 4, 12, 13,
23, 2

