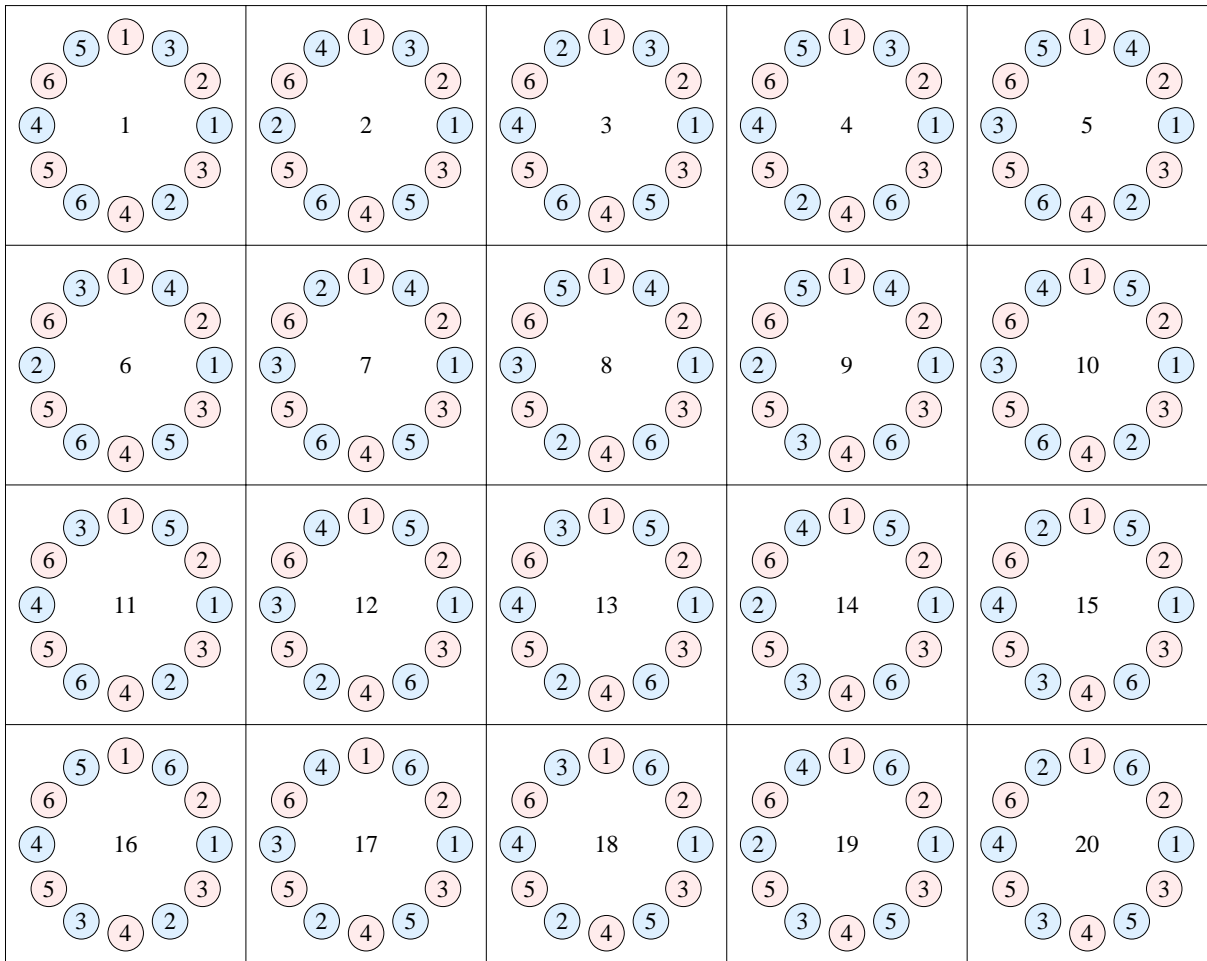6 married couples, including Alice and her husband Bob, are to be seated at 12 chairs around a circular table, with no man seated next to his wife. After the women are seated at every other chair, Bob is the first man to choose one of the remaining chairs. The diagram enumerates the 20 possible seatings of the remaining men if Bob chooses to sit 3 seats clockwise from Alice. Alice is symbolized by ①, Bob by ①, the nth woman by ⓝ and her husband by ⓝ.

1   $\{1, 3, 2, 1, 3, 2, 4, 6, 5, 4, 6, 5\}$
2   $\{1, 3, 2, 1, 3, 5, 4, 6, 5, 2, 6, 4\}$
3   $\{1, 3, 2, 1, 3, 5, 4, 6, 5, 4, 6, 2\}$
4   $\{1, 3, 2, 1, 3, 6, 4, 2, 5, 4, 6, 5\}$
5   $\{1, 4, 2, 1, 3, 2, 4, 6, 5, 3, 6, 5\}$
6   $\{1, 4, 2, 1, 3, 5, 4, 6, 5, 2, 6, 3\}$
7   $\{1, 4, 2, 1, 3, 5, 4, 6, 5, 3, 6, 2\}$
8   $\{1, 4, 2, 1, 3, 6, 4, 2, 5, 3, 6, 5\}$
9   $\{1, 4, 2, 1, 3, 6, 4, 3, 5, 2, 6, 5\}$
10 $\{1, 5, 2, 1, 3, 2, 4, 6, 5, 3, 6, 4\}$
11 $\{1, 5, 2, 1, 3, 2, 4, 6, 5, 4, 6, 3\}$
12 $\{1, 5, 2, 1, 3, 6, 4, 2, 5, 3, 6, 4\}$
13 $\{1, 5, 2, 1, 3, 6, 4, 2, 5, 4, 6, 3\}$
14 $\{1, 5, 2, 1, 3, 6, 4, 3, 5, 2, 6, 4\}$
15 $\{1, 5, 2, 1, 3, 6, 4, 3, 5, 4, 6, 2\}$
16 $\{1, 6, 2, 1, 3, 2, 4, 3, 5, 4, 6, 5\}$
17 $\{1, 6, 2, 1, 3, 5, 4, 2, 5, 3, 6, 4\}$
18 $\{1, 6, 2, 1, 3, 5, 4, 2, 5, 4, 6, 3\}$
19 $\{1, 6, 2, 1, 3, 5, 4, 3, 5, 2, 6, 4\}$
20 $\{1, 6, 2, 1, 3, 5, 4, 3, 5, 4, 6, 2\}$