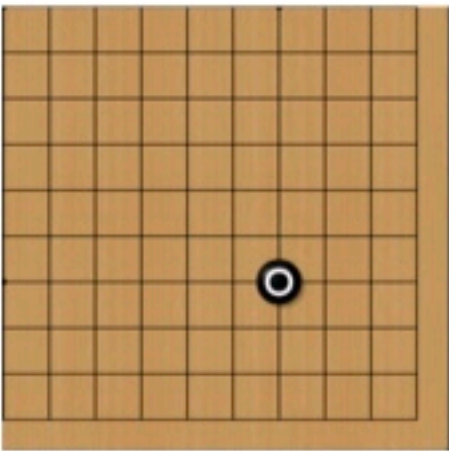
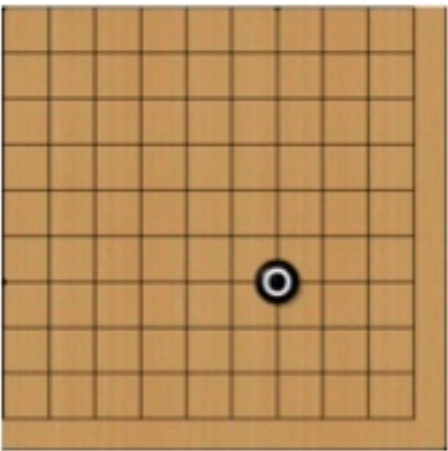
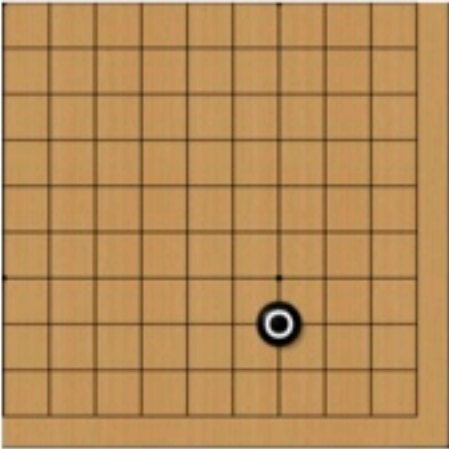
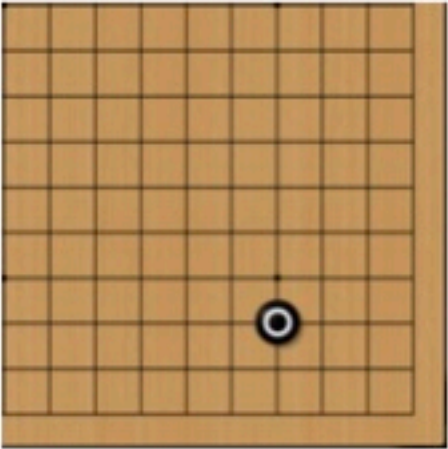
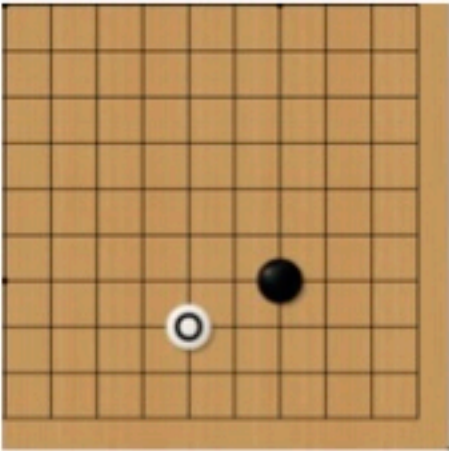
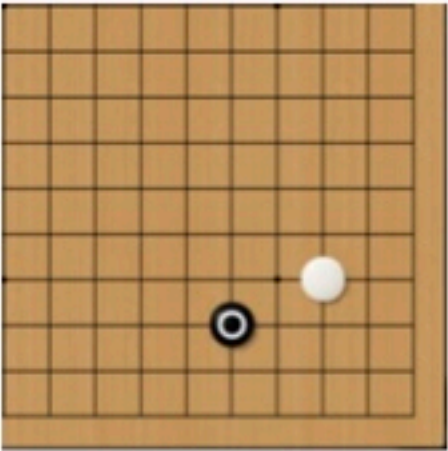
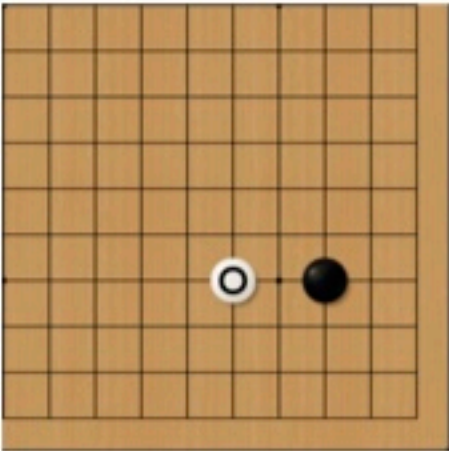
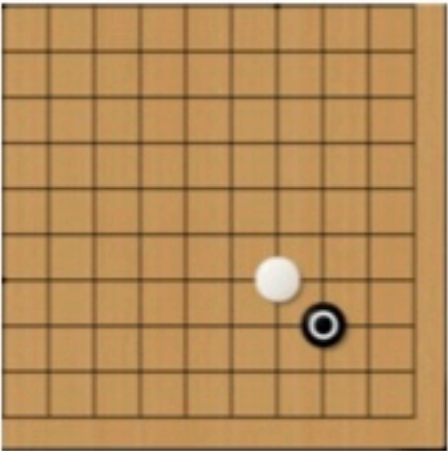
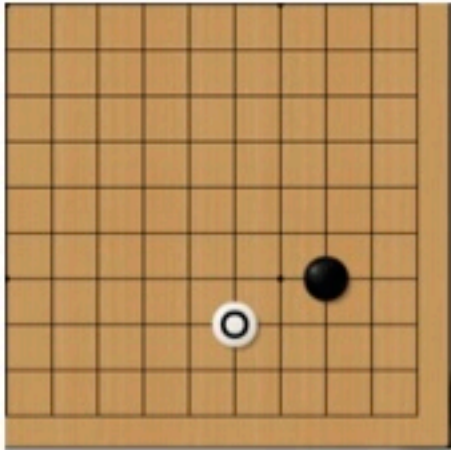
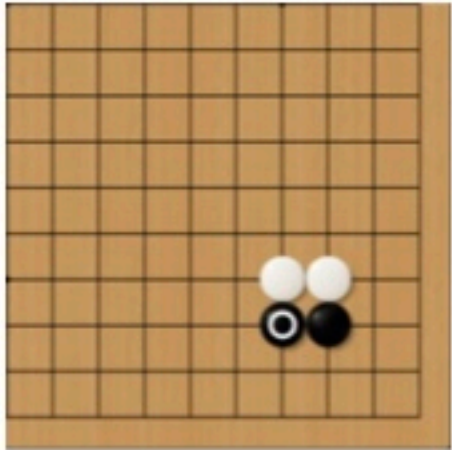
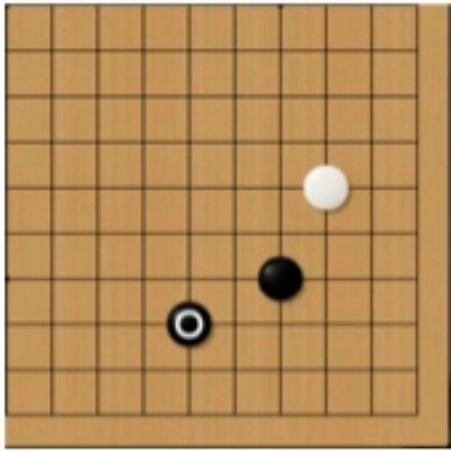
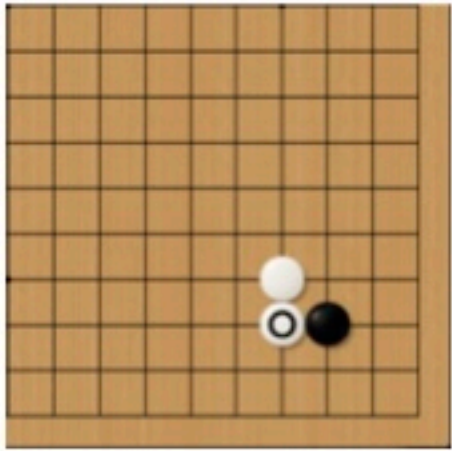
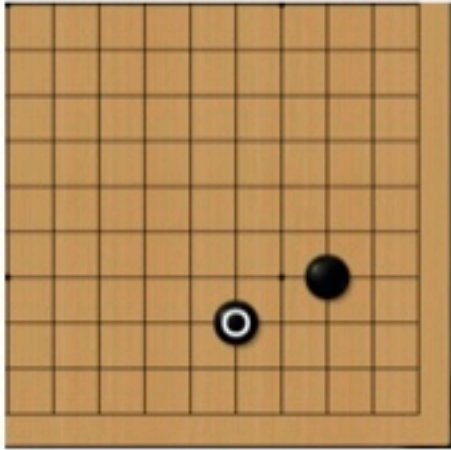
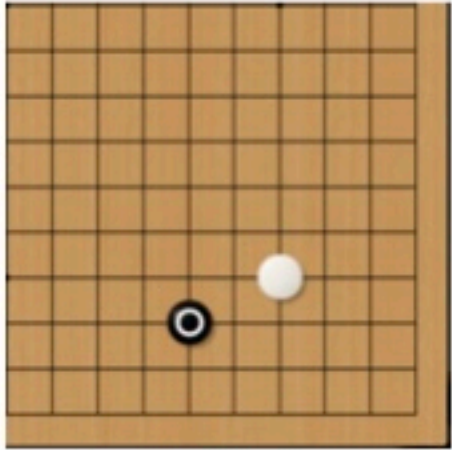
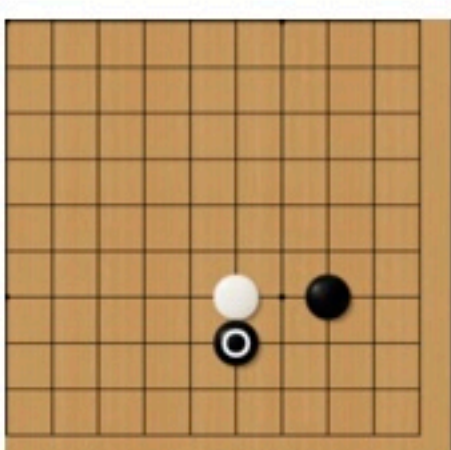
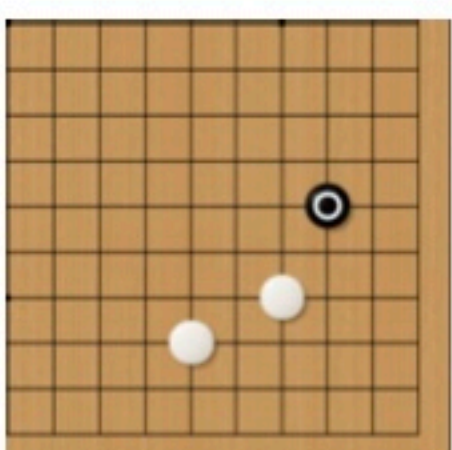
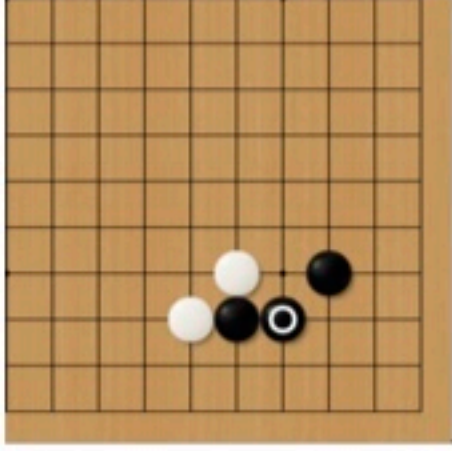
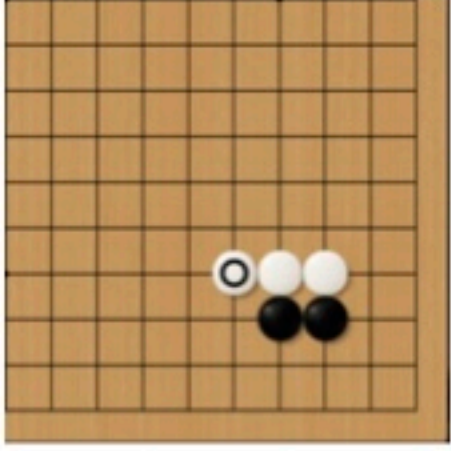


6. Saffidine, A., Teytaud, O., & Yen, S.-J. (2015). Go complexities. In Proceedings of the Advances in Computer Games Conference (pp. 88–99). Leiden, Netherlands: Springer.  
[doi.org/10.1007/978-3-319-27992-3\\_8](https://doi.org/10.1007/978-3-319-27992-3_8)

**Table I.**

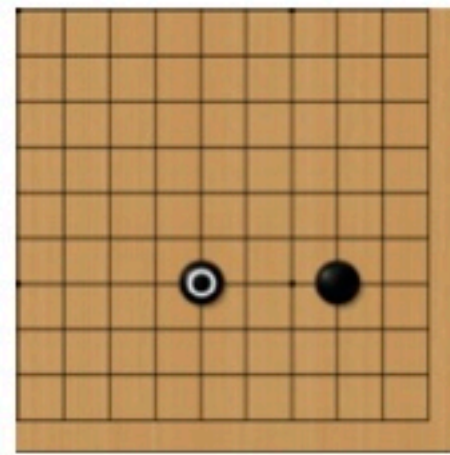
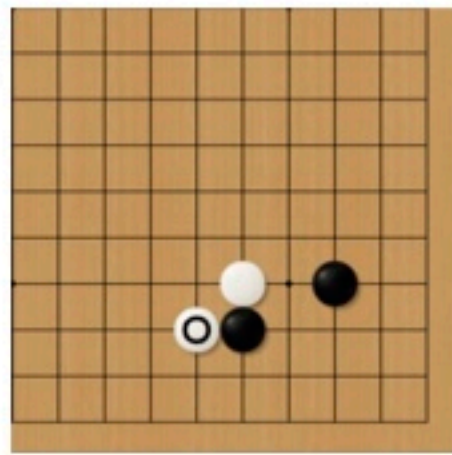
	2007 (a)	2025 (b)	Notes
1			the 4-4 star point remains most frequent
2			komoku (3-4) also remains as second most frequent pattern
3			A low approach to a 3-4 point is nowadays more urgent than both a low approach to 4-4, (pattern 3a) and a high approach to a 3-4 (pattern 4a)
4			A san-san invasion is more urgent than a high approach to an opponent's komoku



5			<p>this standard sequence after a san-san invasion leaves the invader in gote, suggesting the invaded stone may reply with <i>tennuki</i> before extending</p>
6			<p>Once white extends, it is less likely that black will <i>tennuki</i>, considering the result of pattern 5b</p>
7			<p>A low approach to the 4-4 is now less frequent than a san-san invasion, see pattern 5a</p>
8			<p>This approach resembles the <i>joseki</i> pattern in 6a but is actually a low approach to the opponent's enclosure from the 4-4 point. The fact that this enclosure pattern does not appear without the approach, suggests this move follows most of the time</p>
9			<p>A <i>joseki</i> continuation to pattern 5b not as frequent</p>

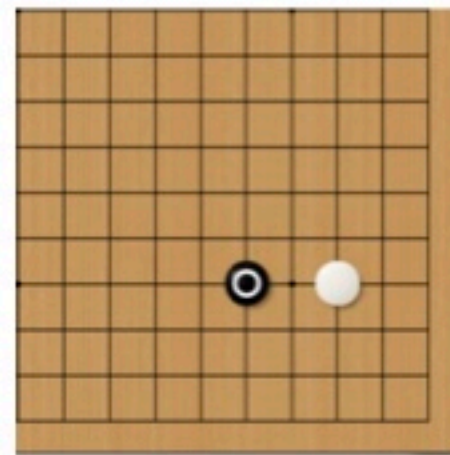
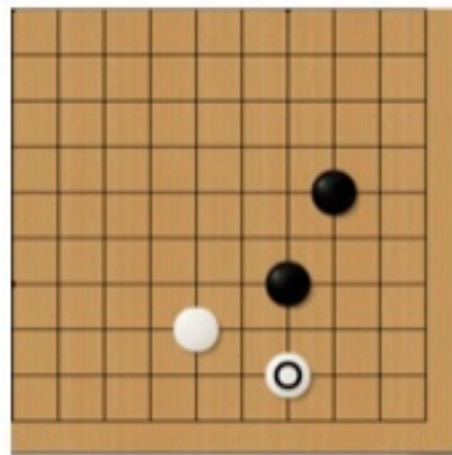


10



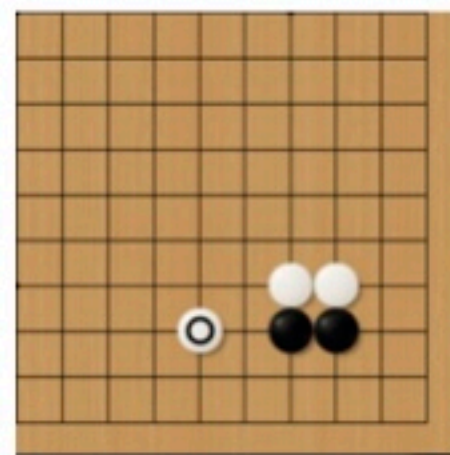
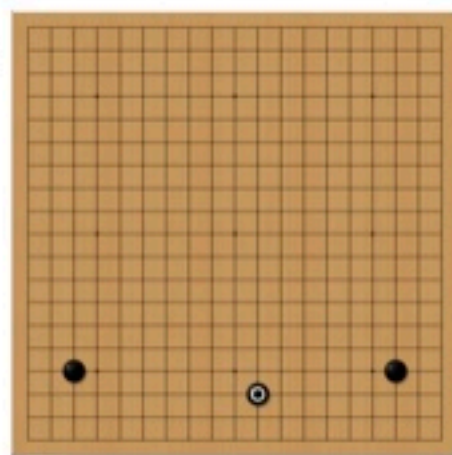
Two space jump from komoku appears as the most urgent form of enclosing a corner

11



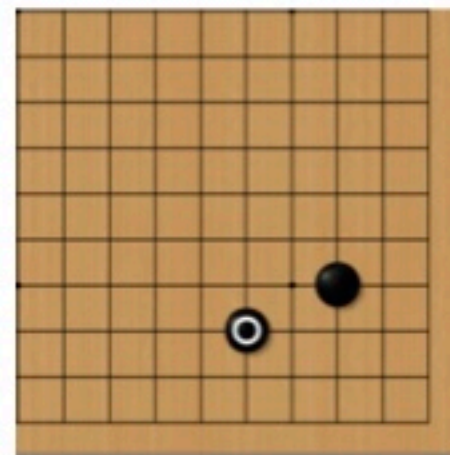
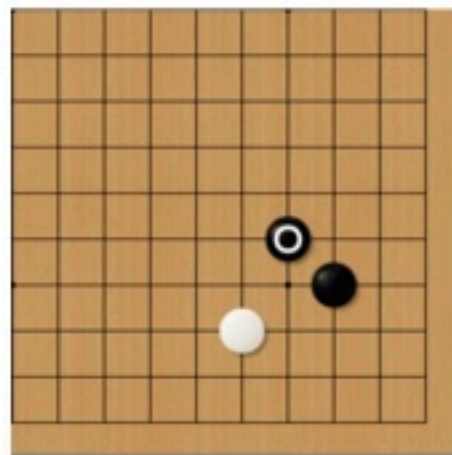
a high approach to komoku descends from 4th to 11th most frequent pattern

12



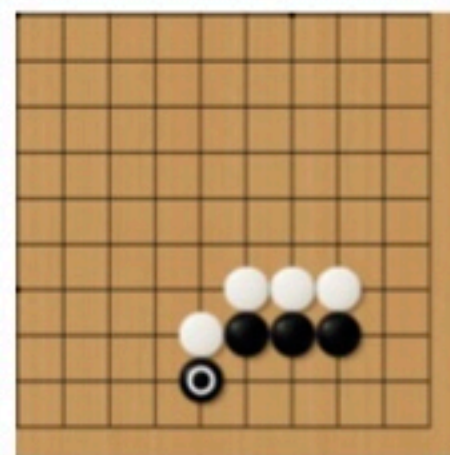
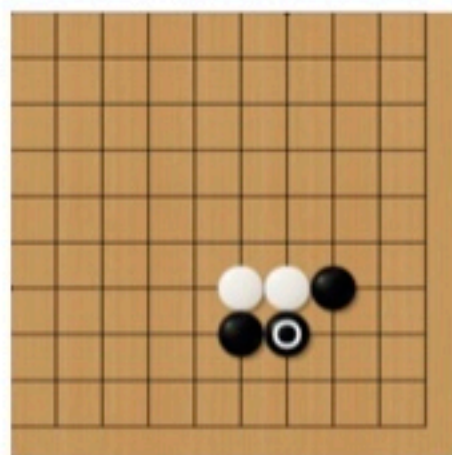
Another continuation from pattern 5b precedes its subsequent *joseki* moves in patterns 14b, 15b and 17b

13



This move is now less frequent, see pattern 7a

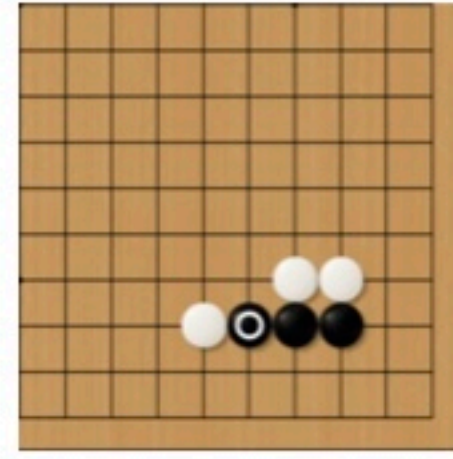
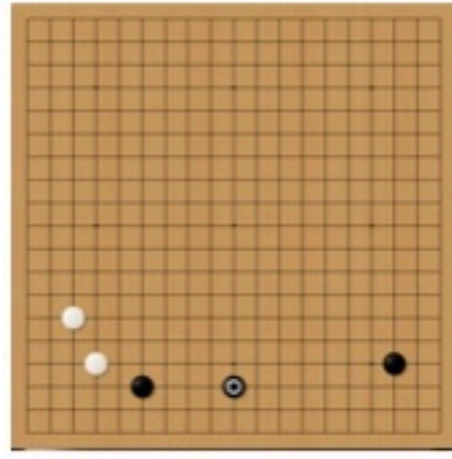
14



This *joseki* pattern naturally appears after a san-san invasion, but an extension from white's stone in the third line is not always the immediate follow-up, suggesting white's *tennuki*

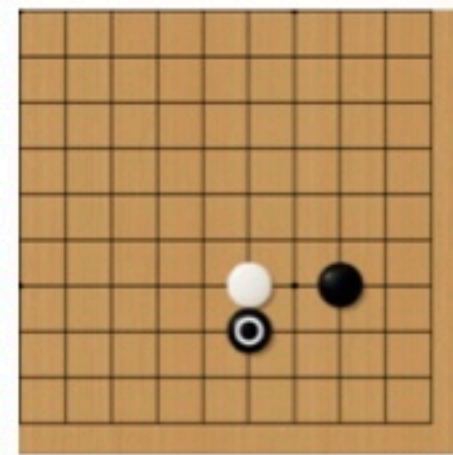
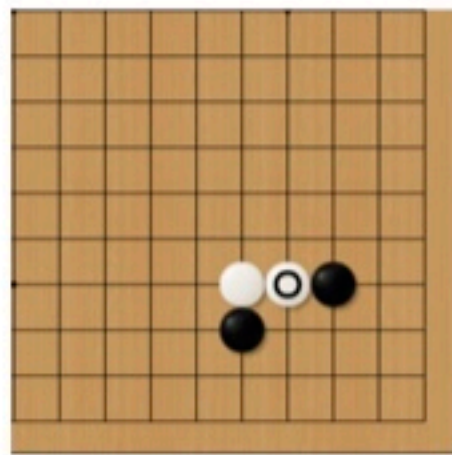


15



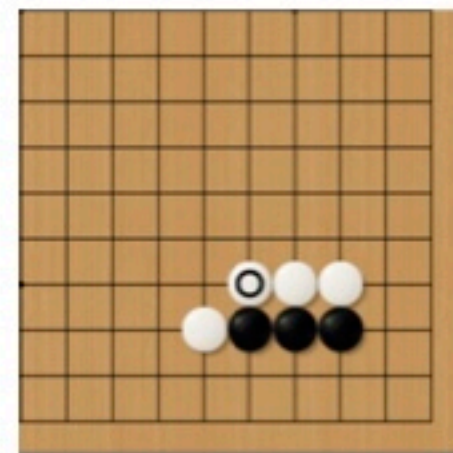
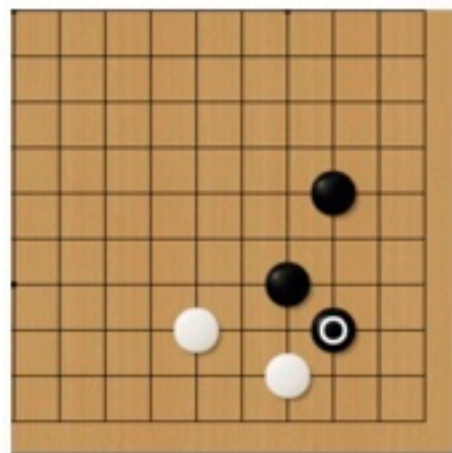
Though less frequent, this sequence from *san-san* invasion *joseki* also suggests white's *tennuki*, instead of following up with *hane* as in pattern 14b

16



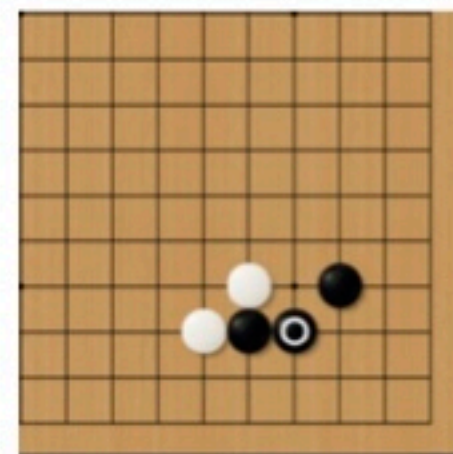
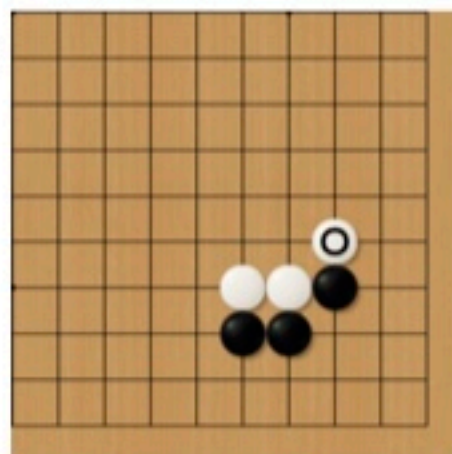
This pattern has become less frequent, see 8a

17



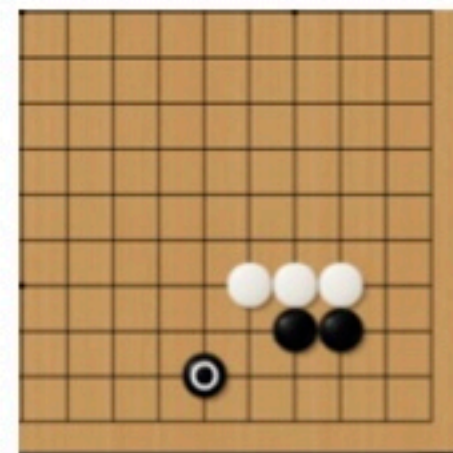
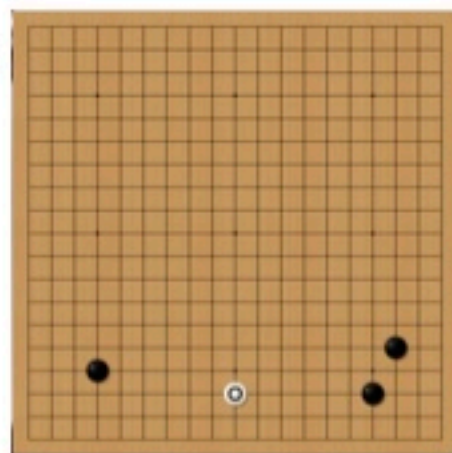
Similarly to pattern 14b, this sequence suggests black's *tennuki* immediately after white's *hane*.

18



This *joseki* pattern is less frequent in modern play, see 9a

19



Another continuation from pattern 9b