

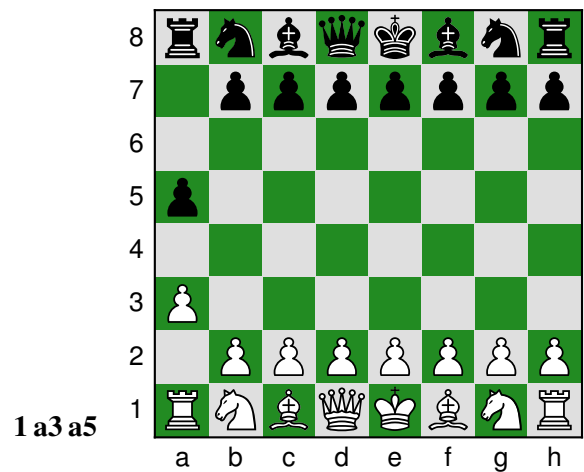
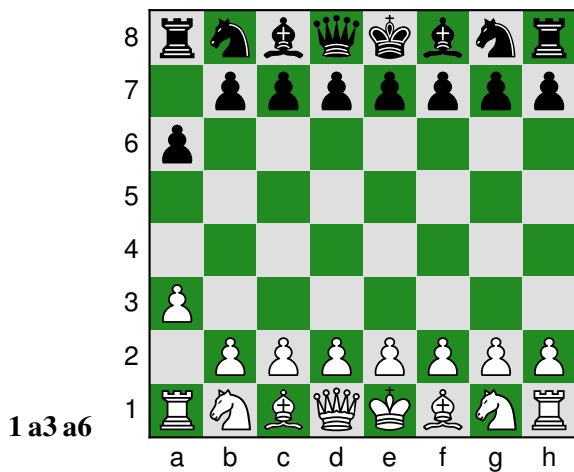
# All the possible first moves.

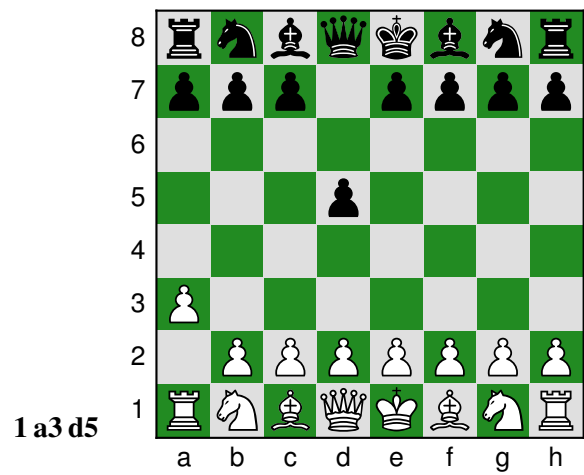
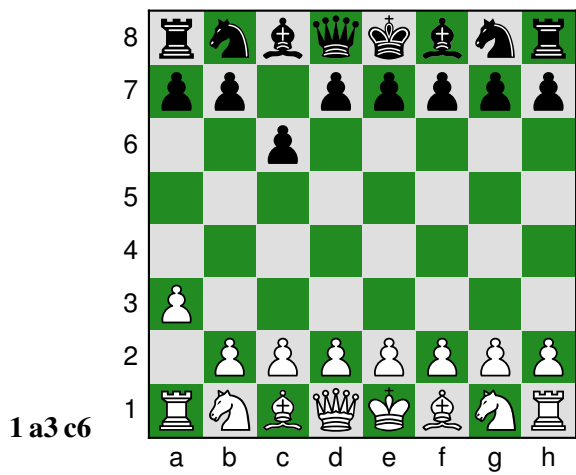
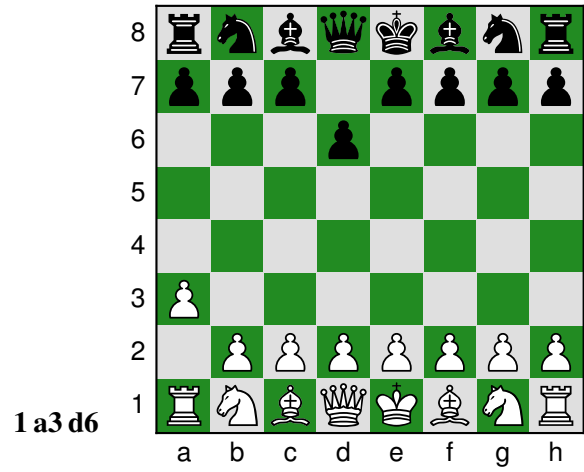
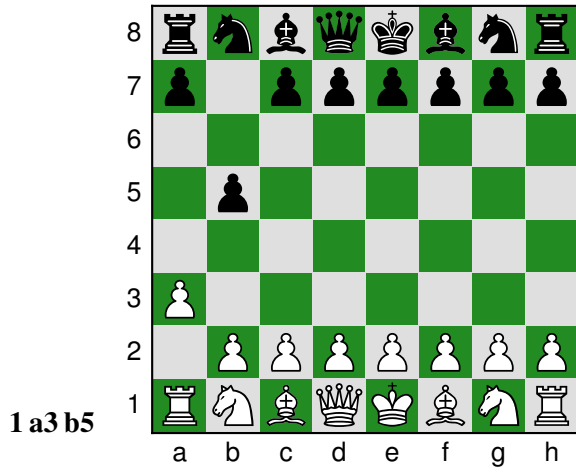
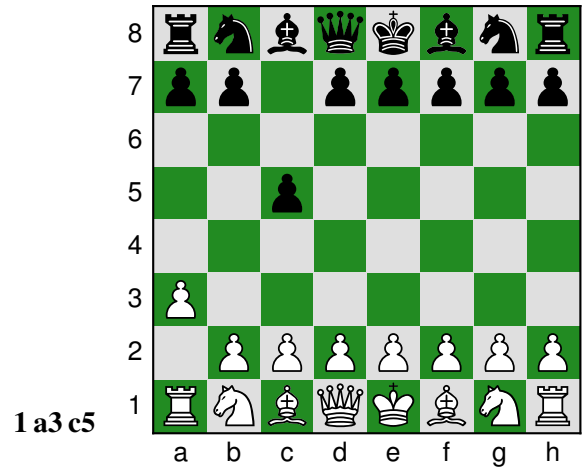
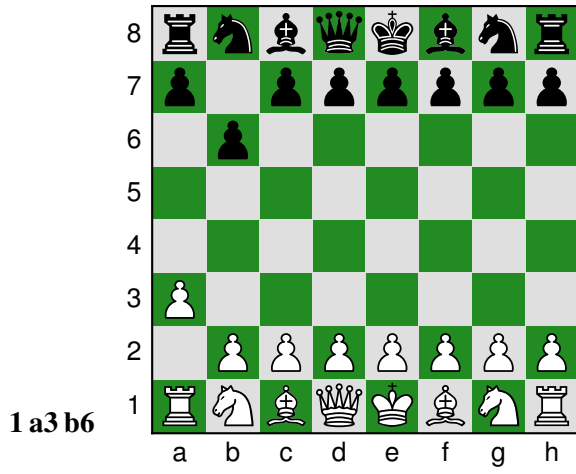
Saqib A. Kakvi

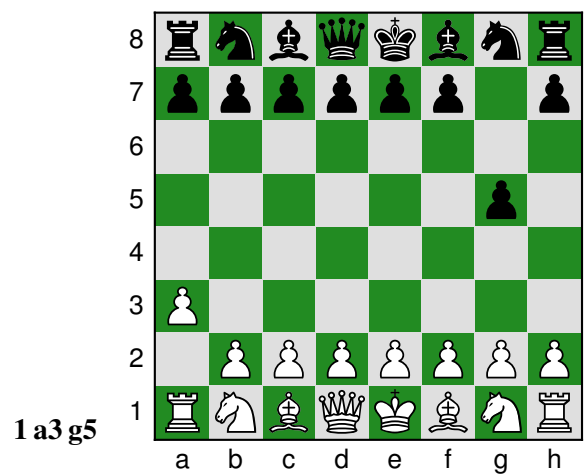
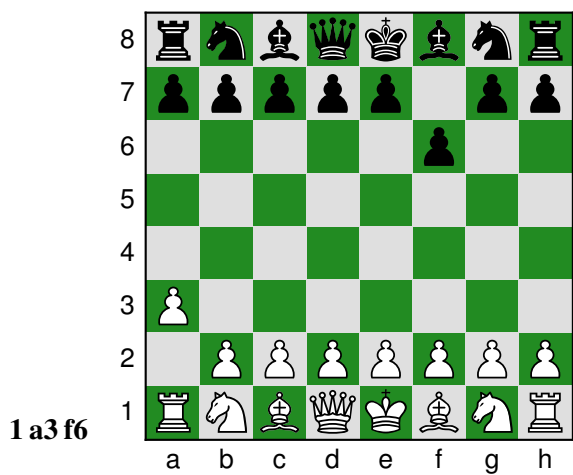
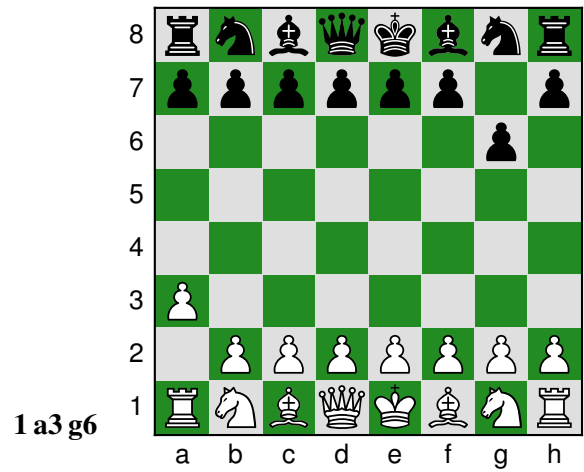
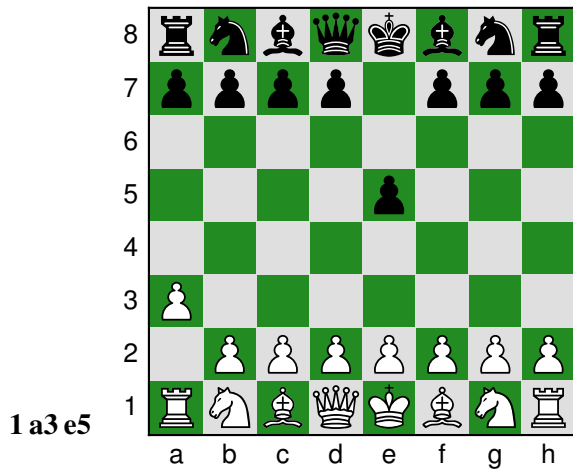
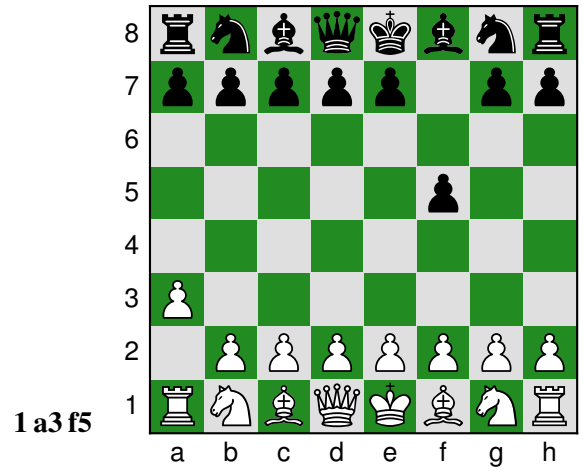
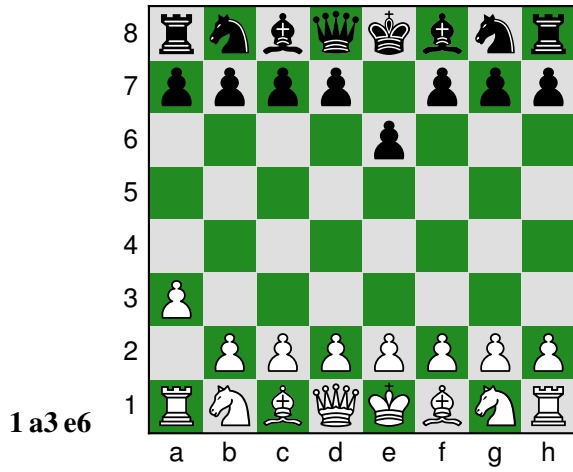
July 30, 2020

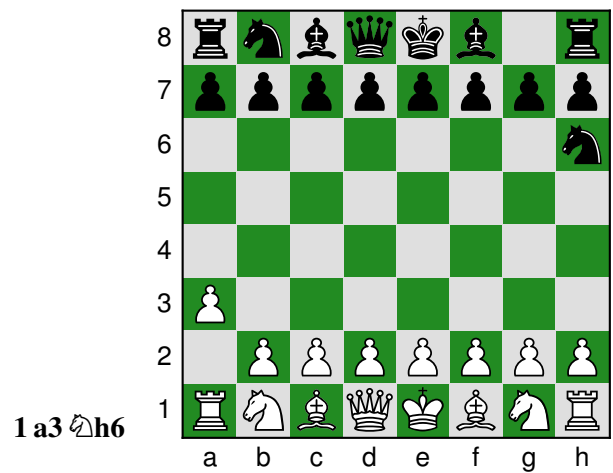
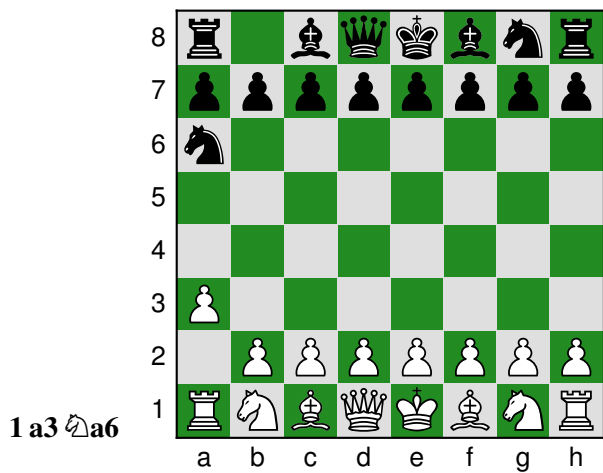
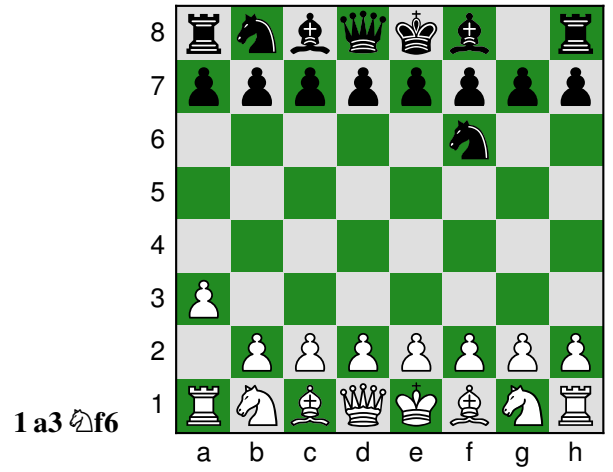
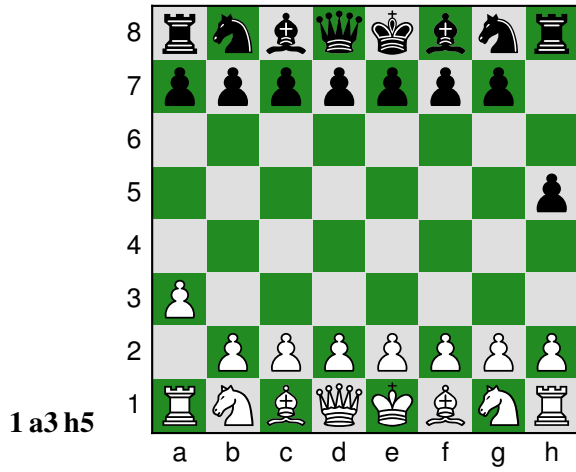
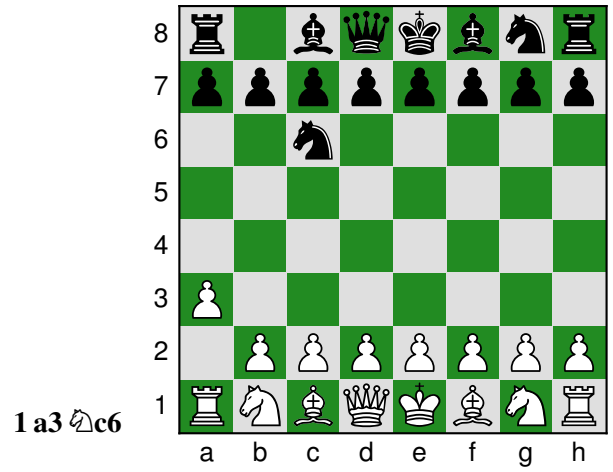
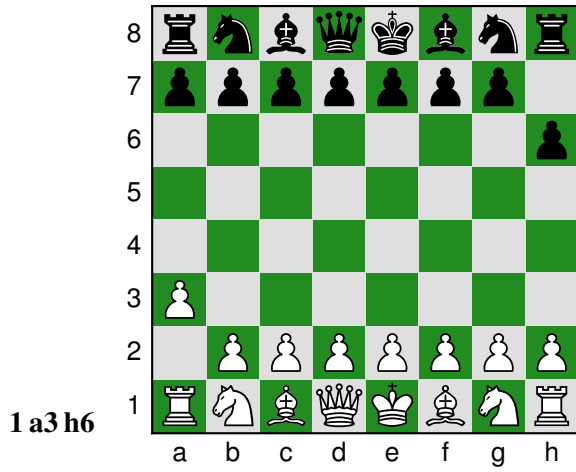
## Abstract

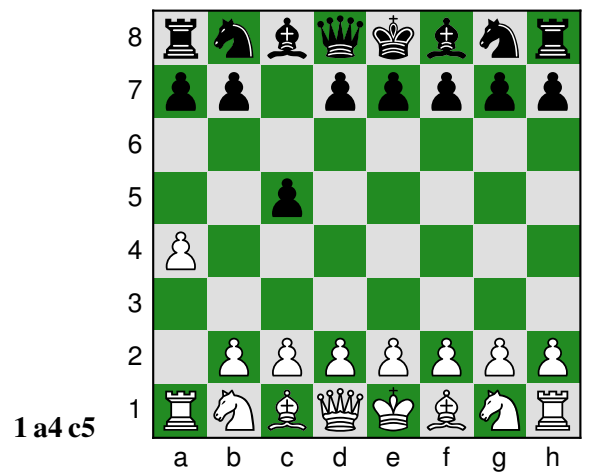
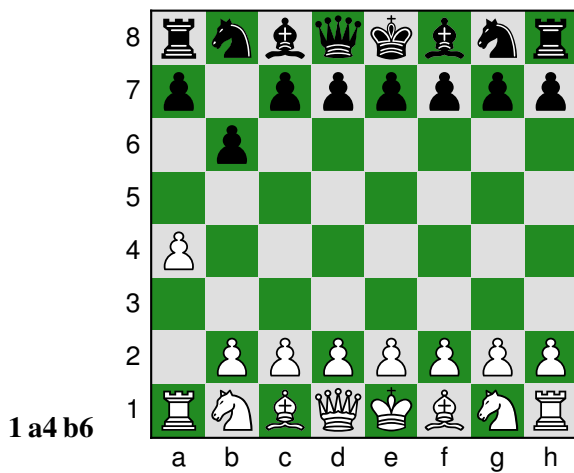
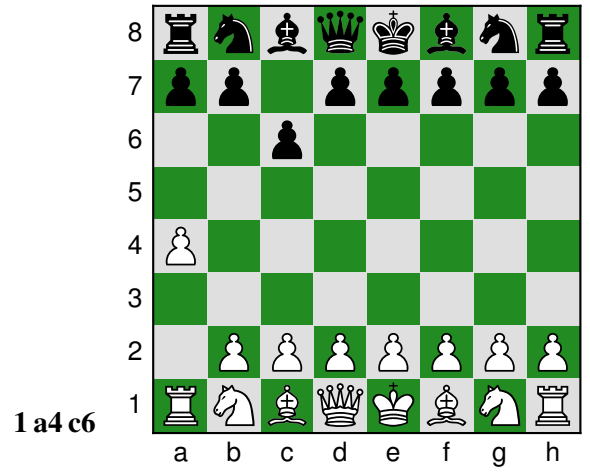
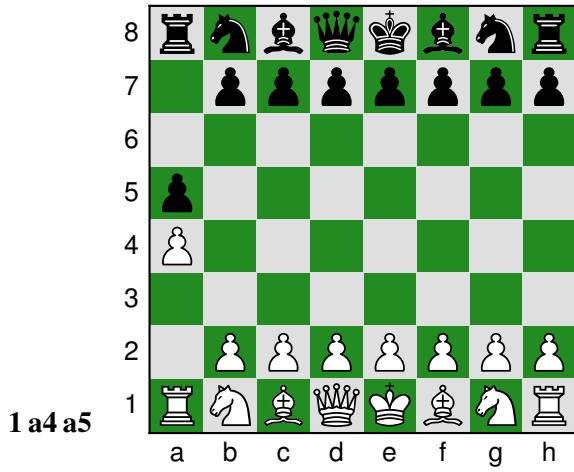
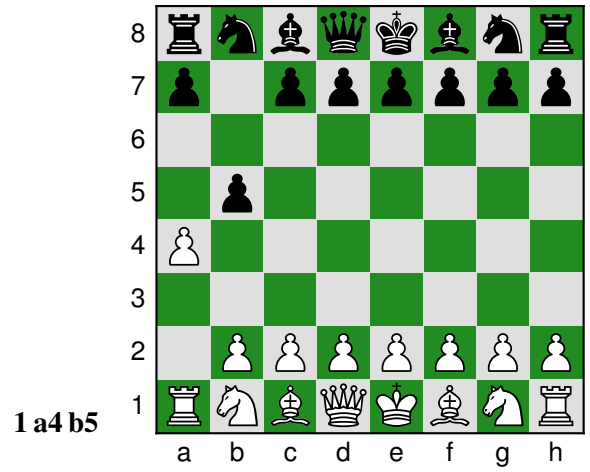
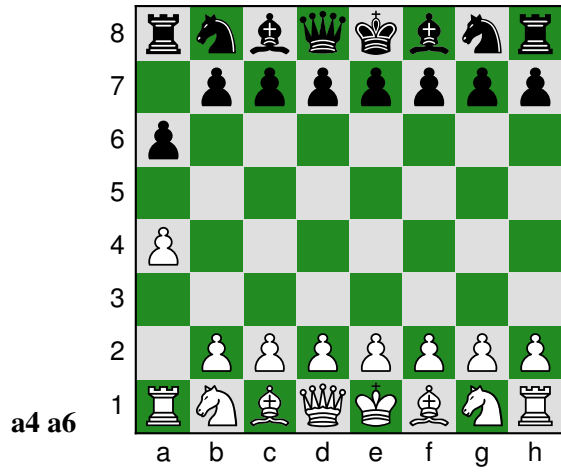
This document lists all the possible first moves in a game of standard chess. Yes, all 400 of them. Yes, I've counted, see my main chess document [Kak20]. This was pretty easy with and was done with copy, paste and find & replace. No, I don't really have a good reason, I was up late and this happened. For those interested, it took about 80 seconds to compile using 10GB of RAM and 60% CPU. I could be more precise, but let's be honest, nobody cares.

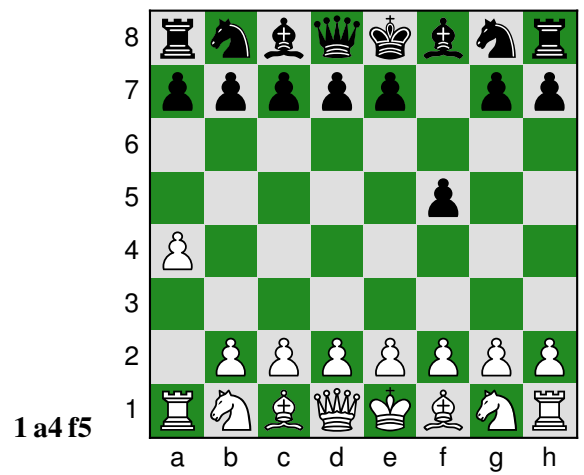
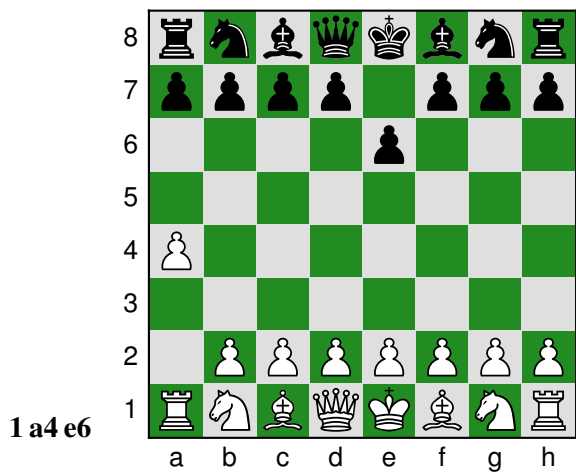
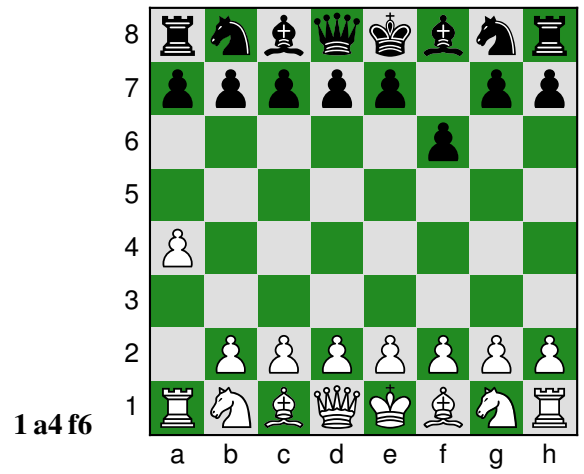
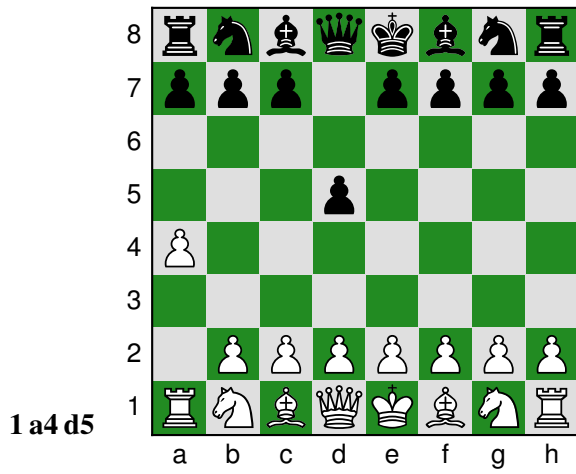
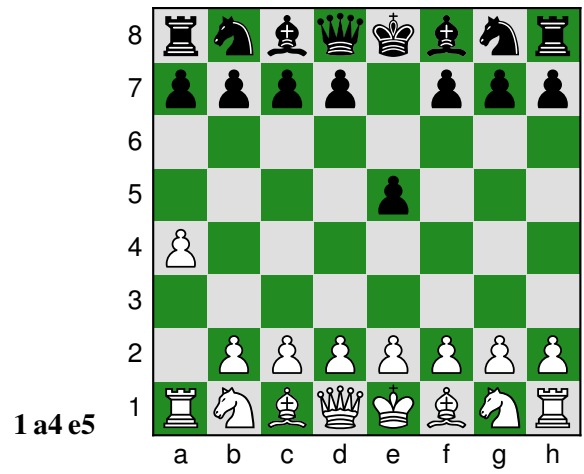
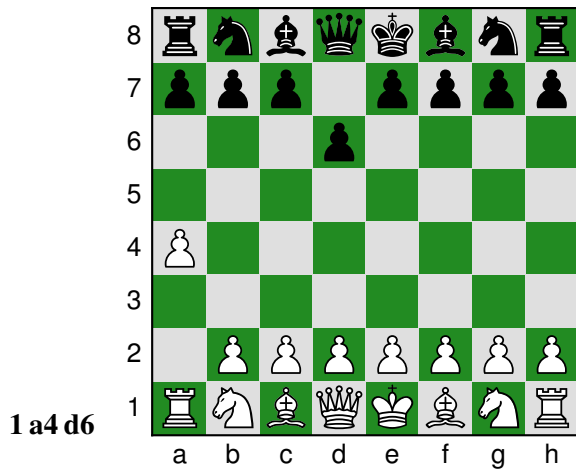


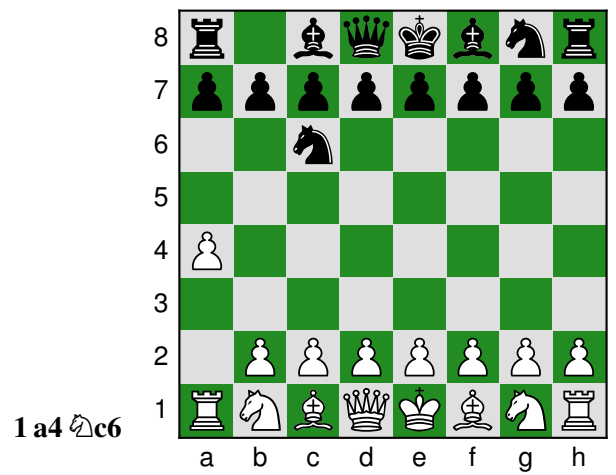
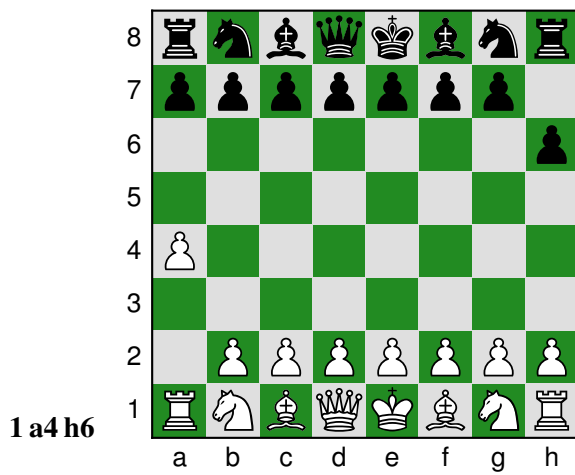
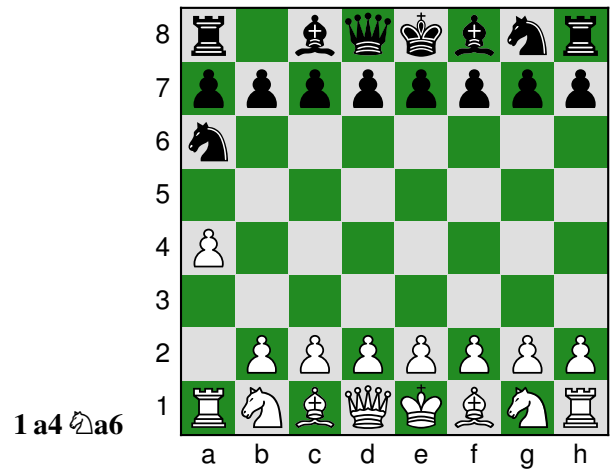
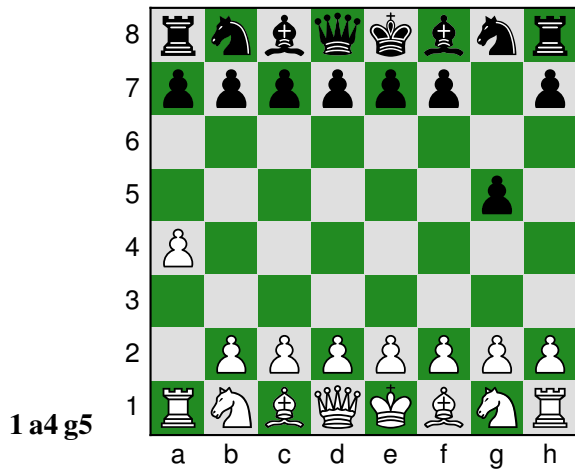
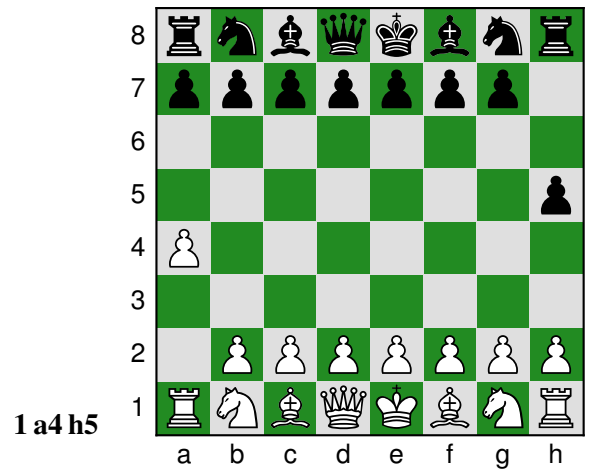
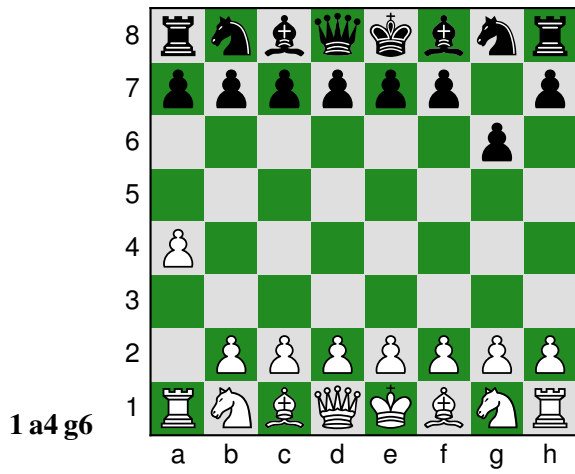


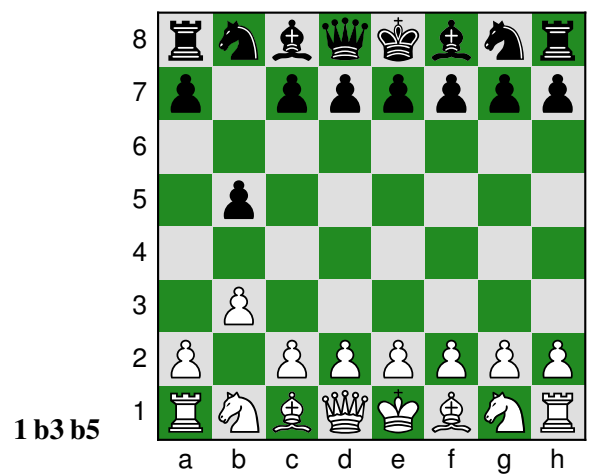
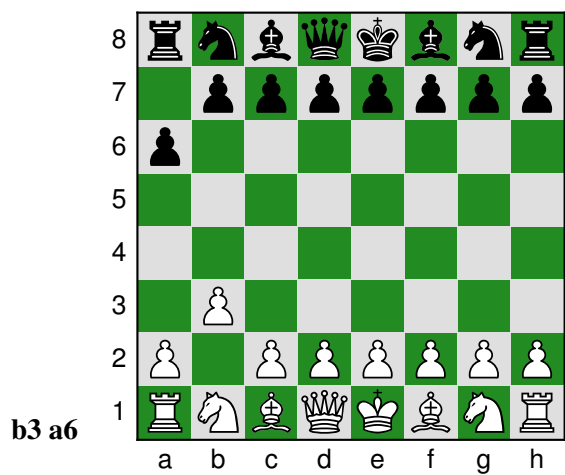
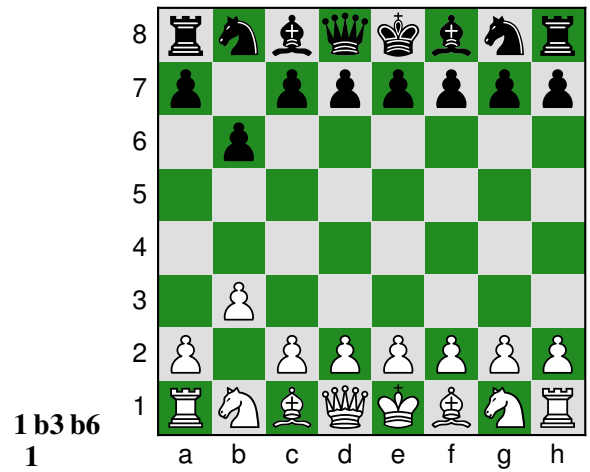
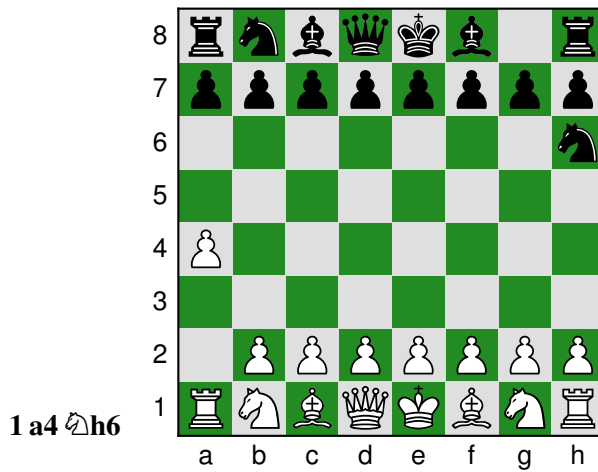
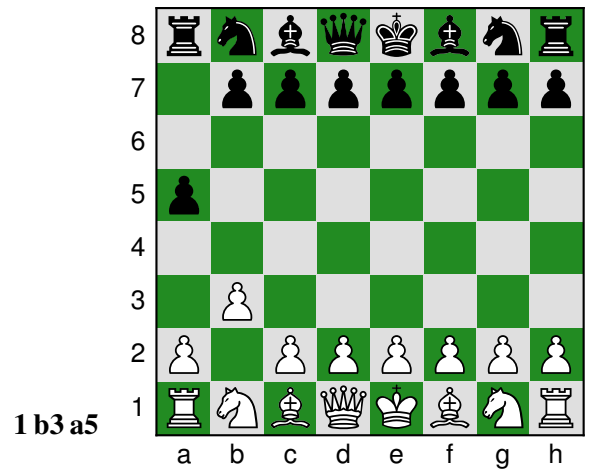
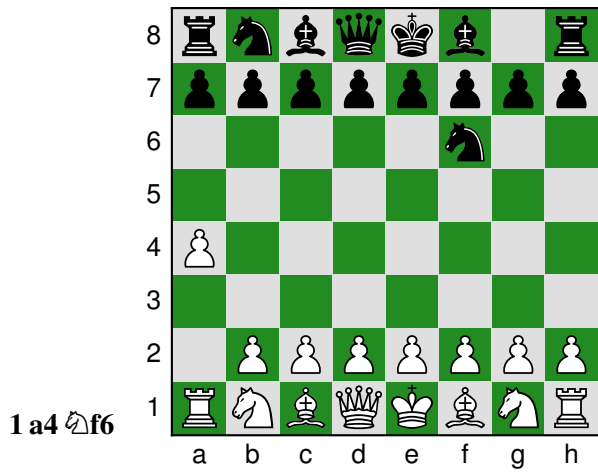




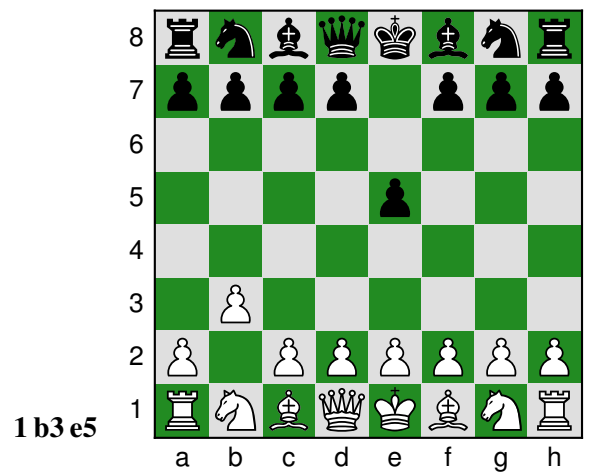
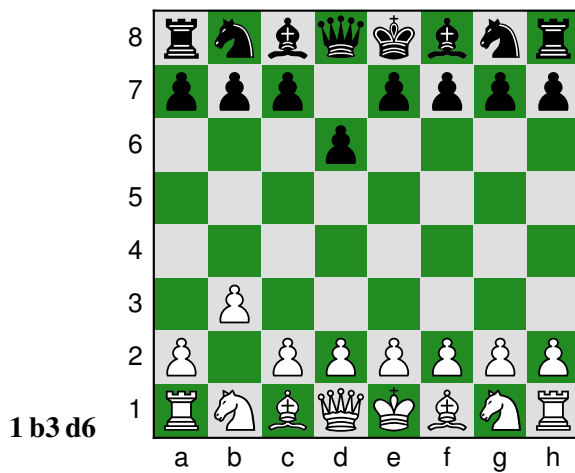
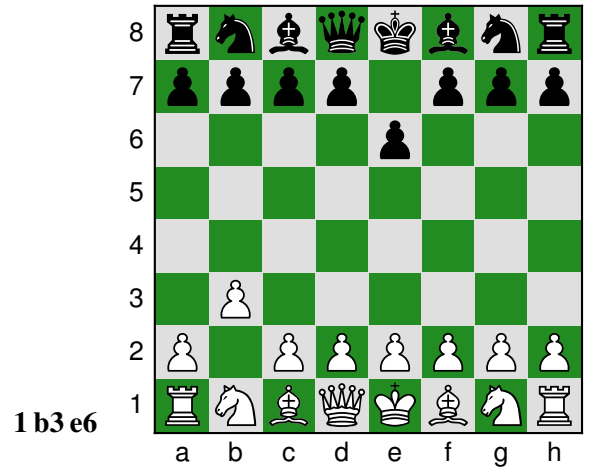
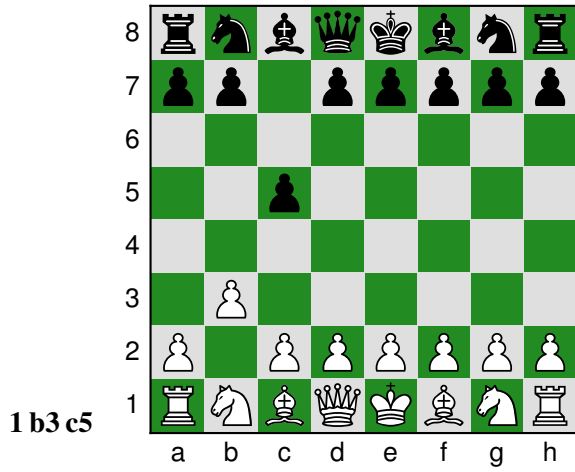
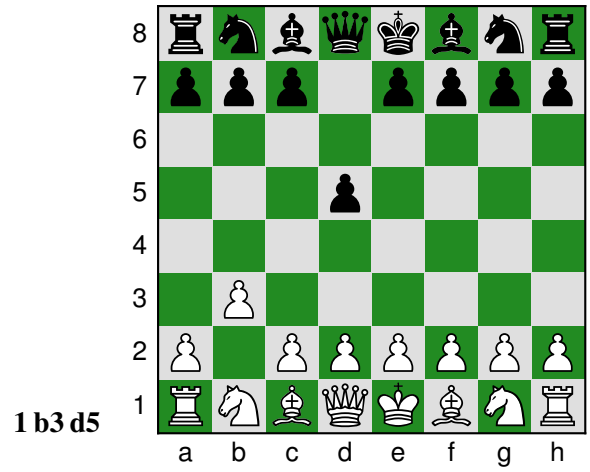
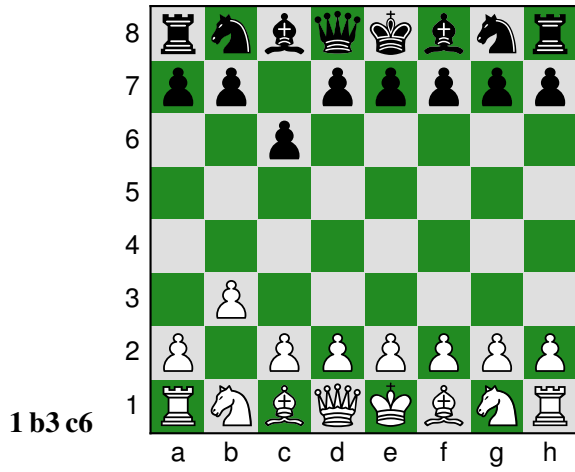


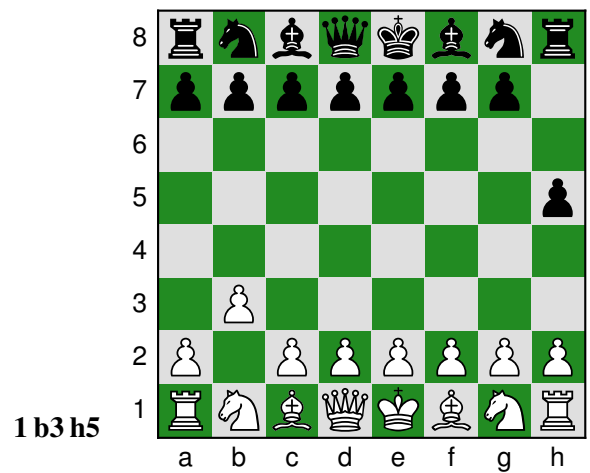
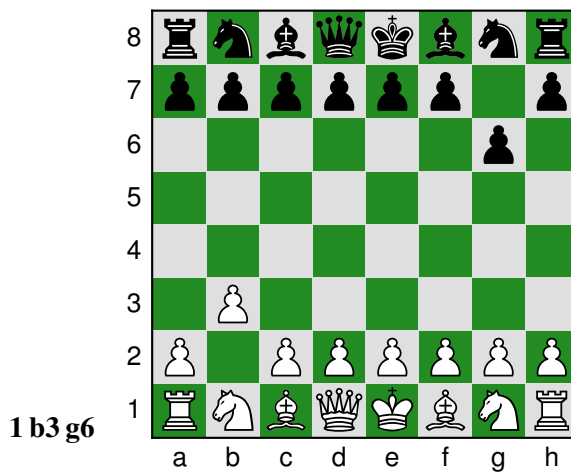
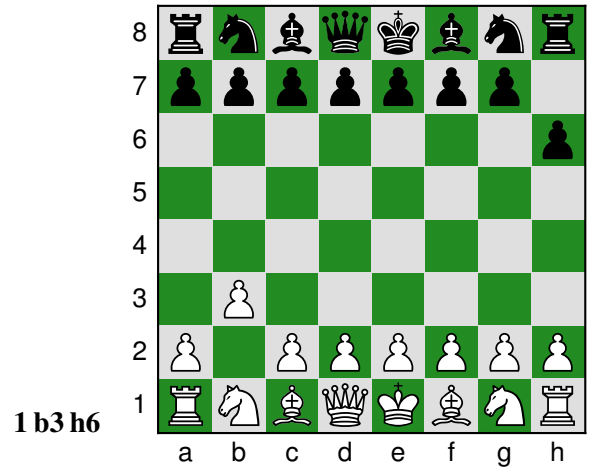
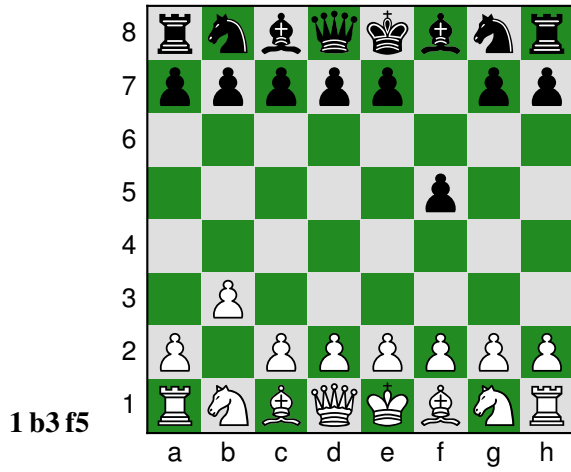
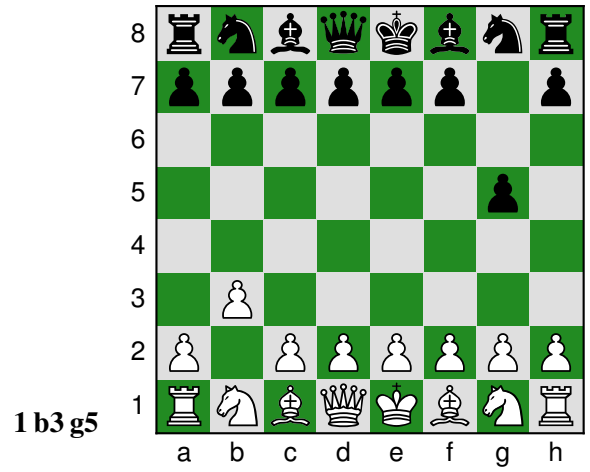
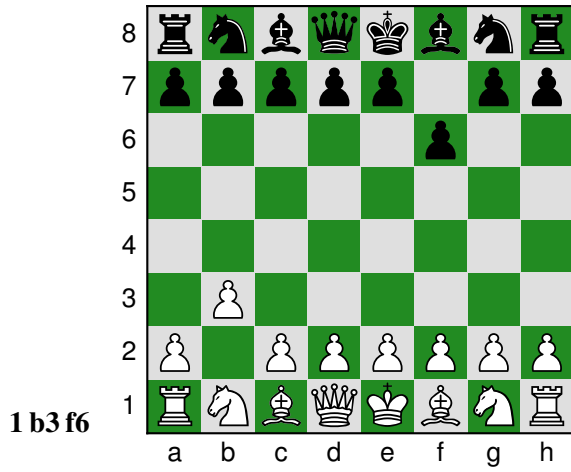


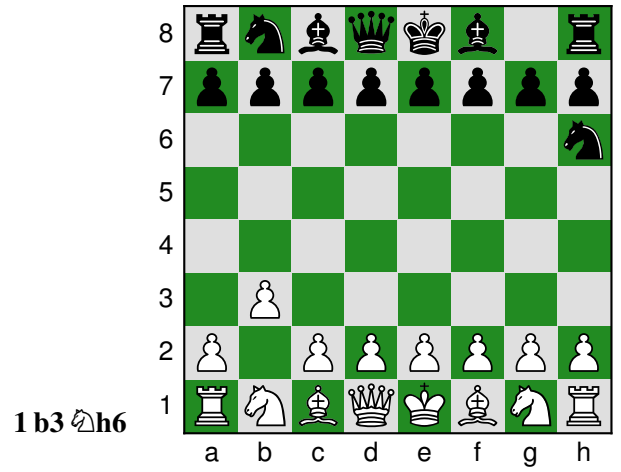
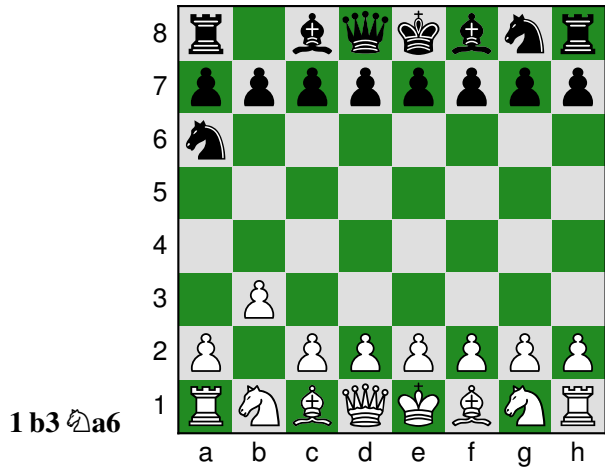




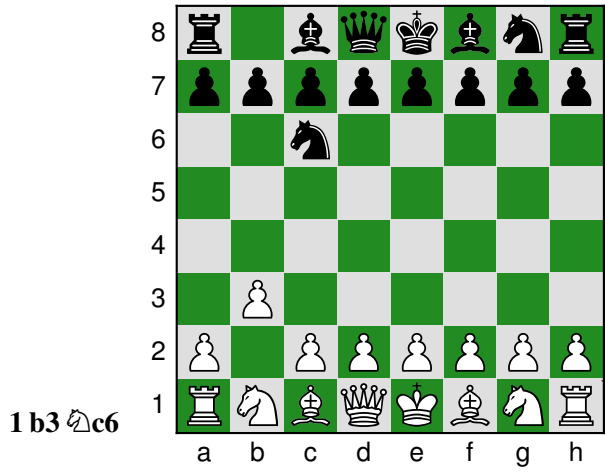




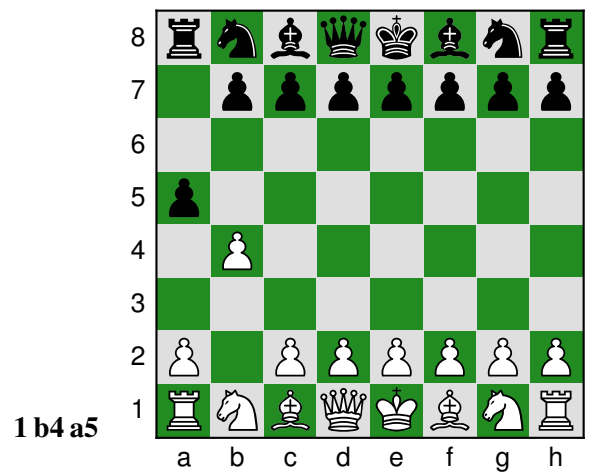
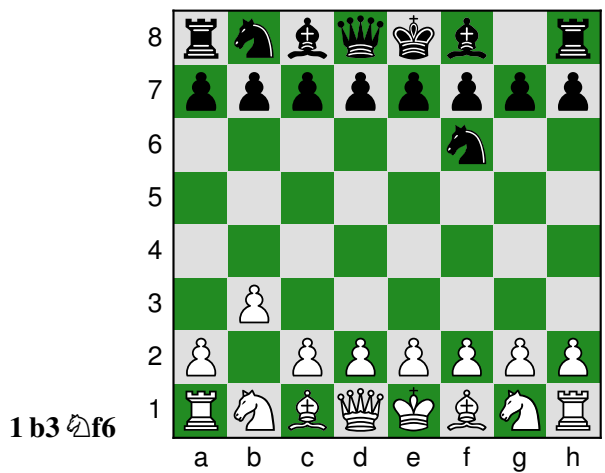
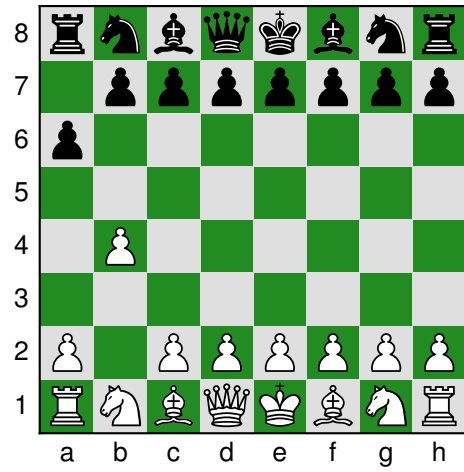


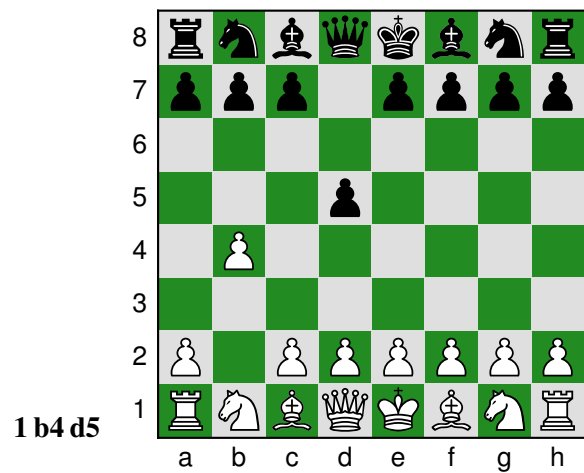
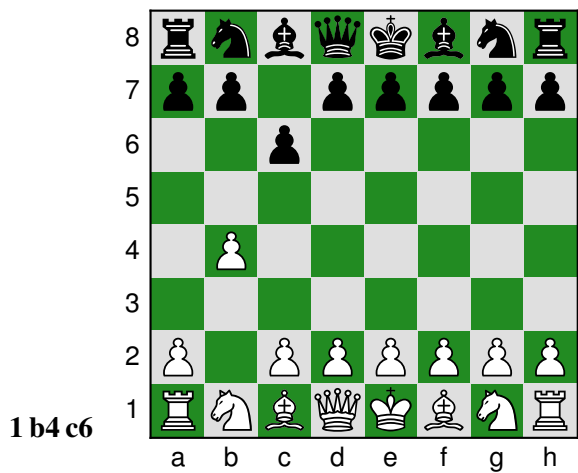
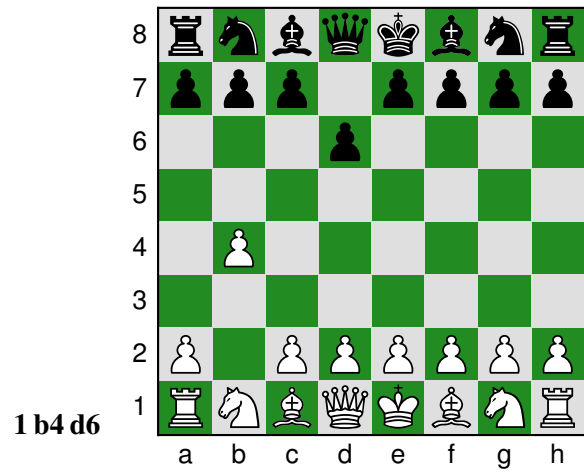
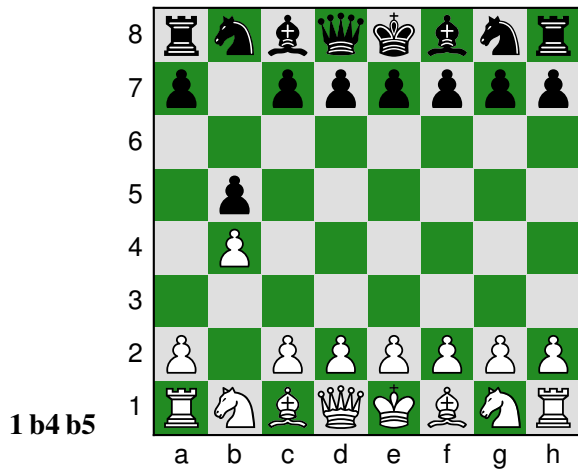
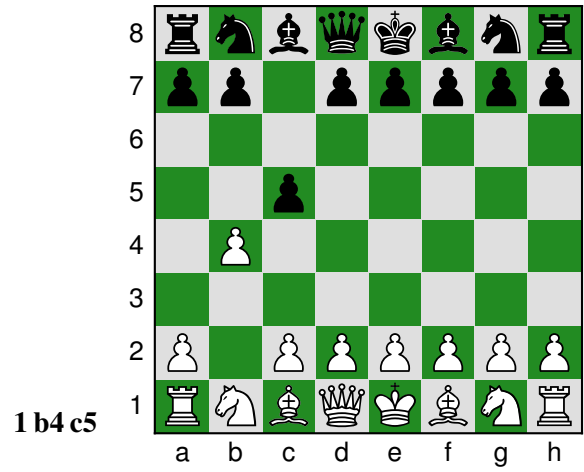
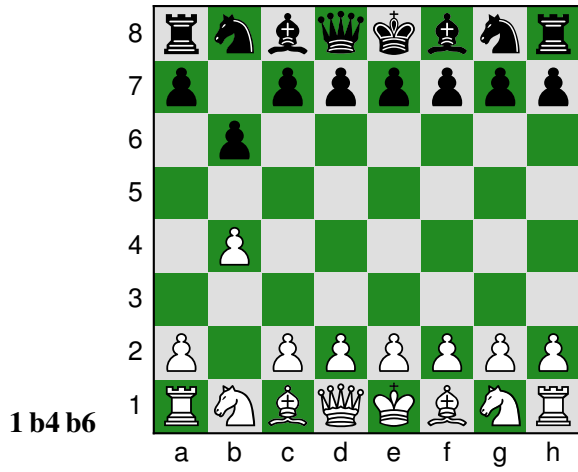


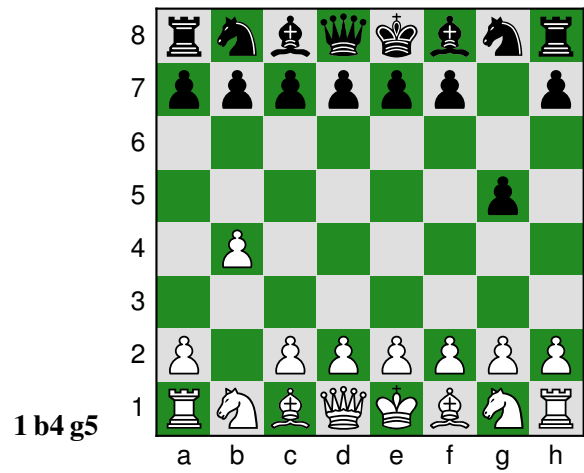
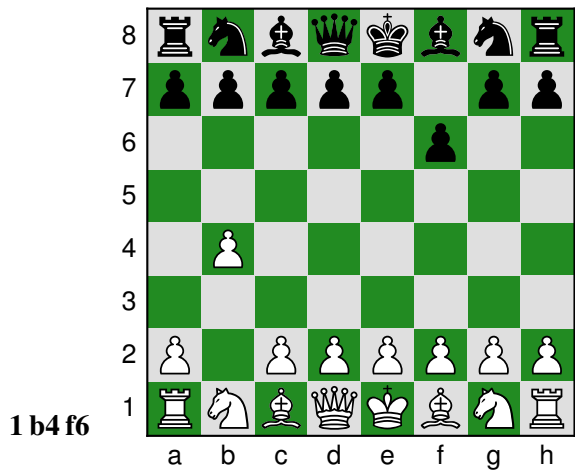
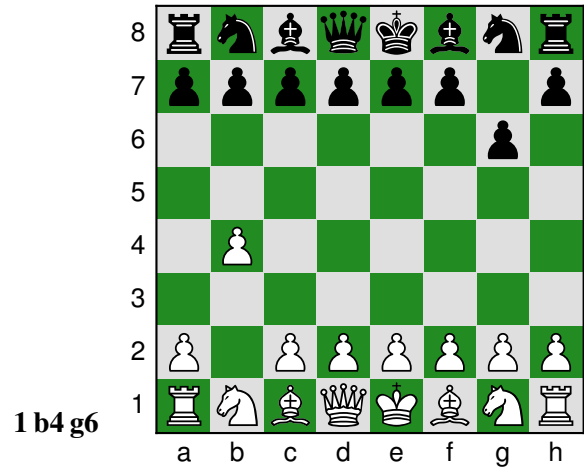
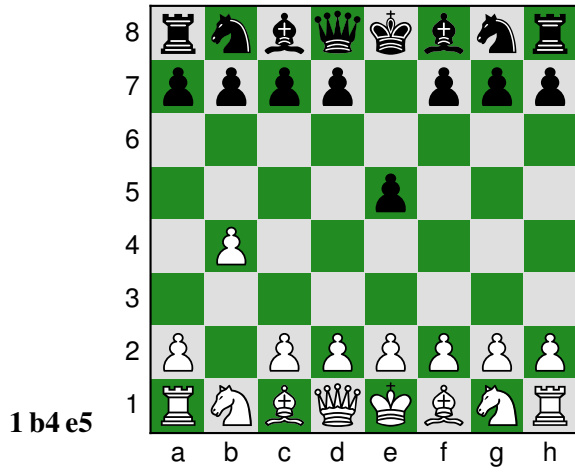
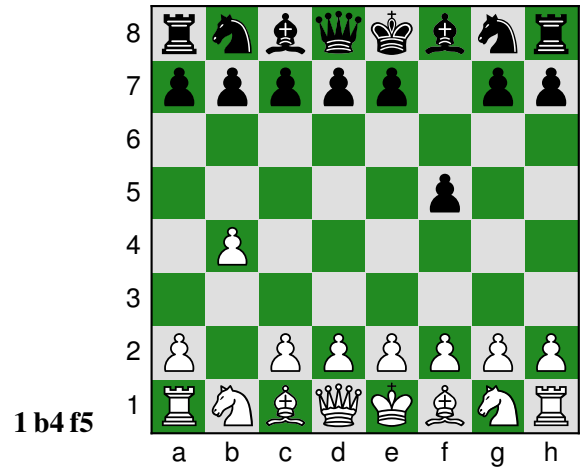
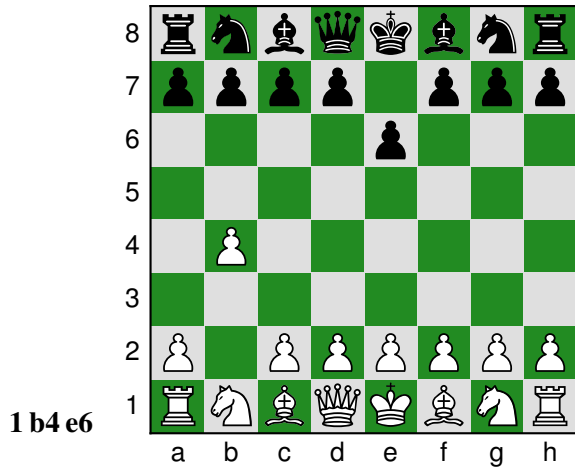
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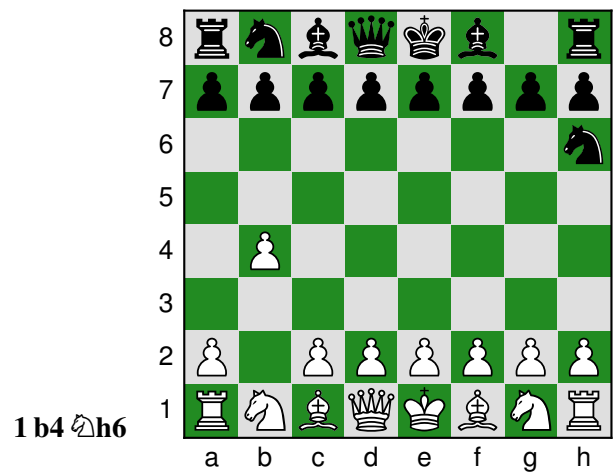
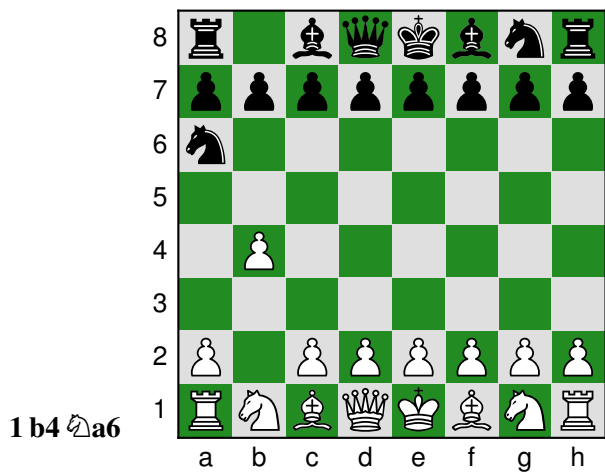
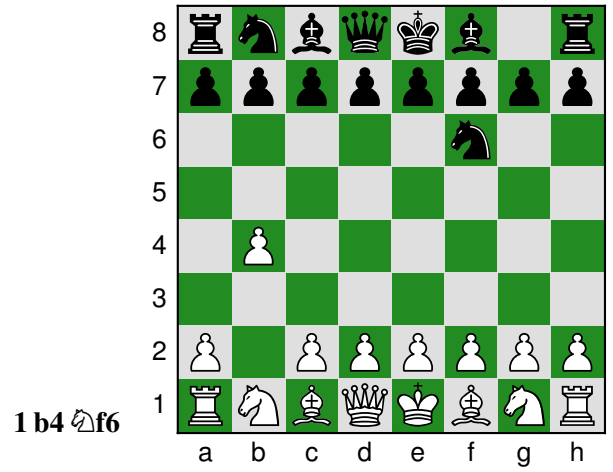
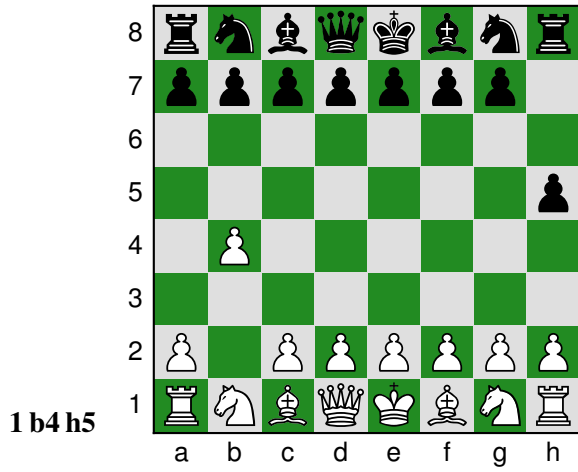
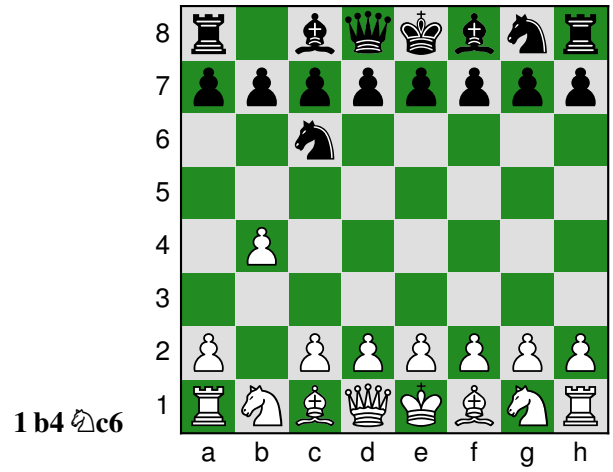
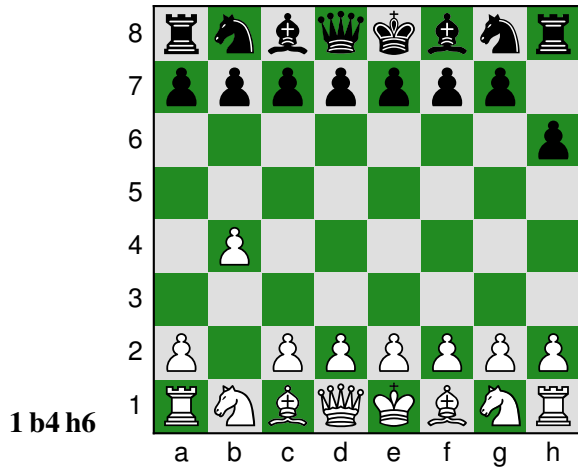


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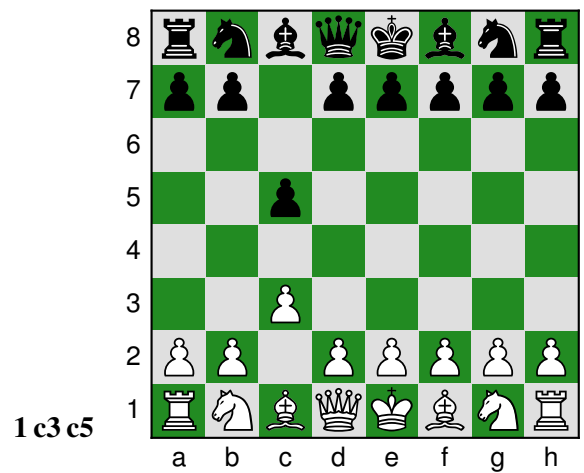
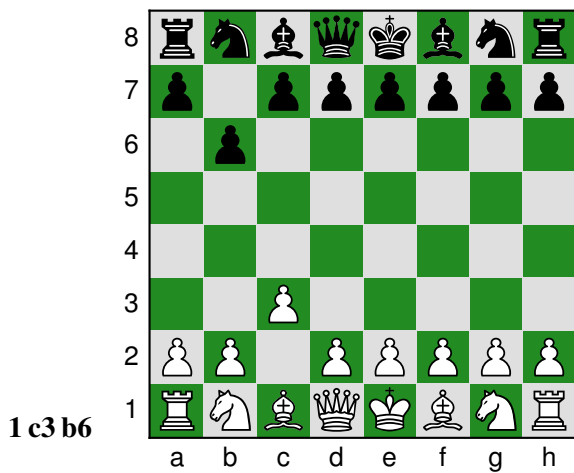
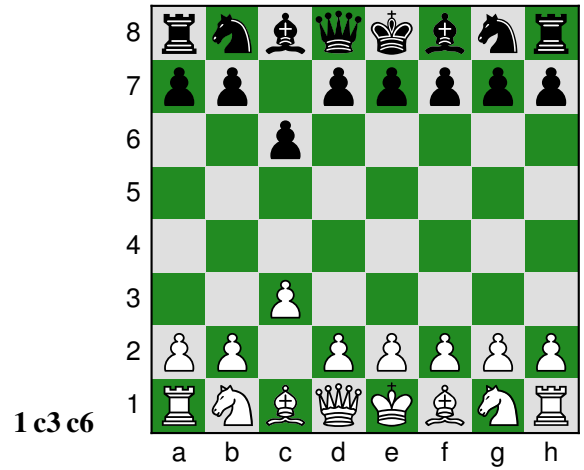
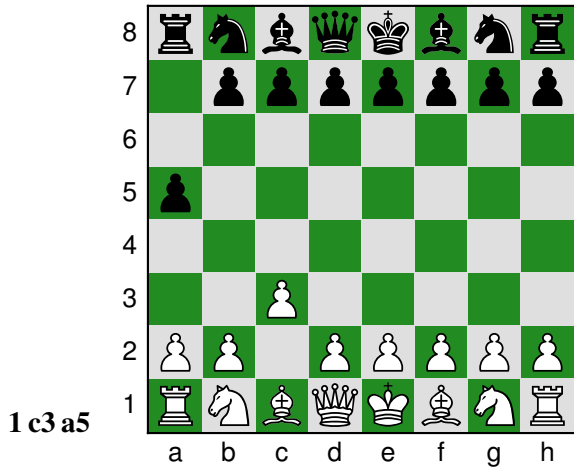
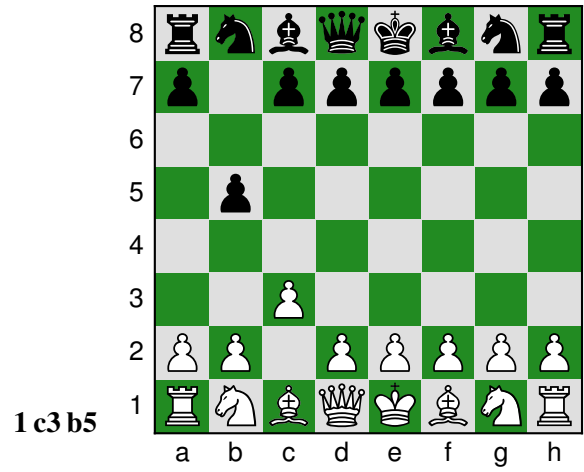
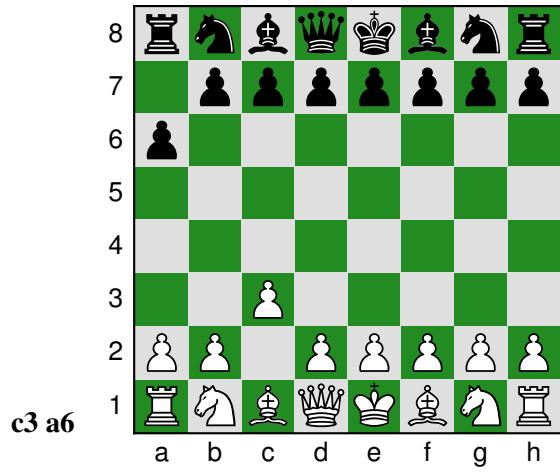


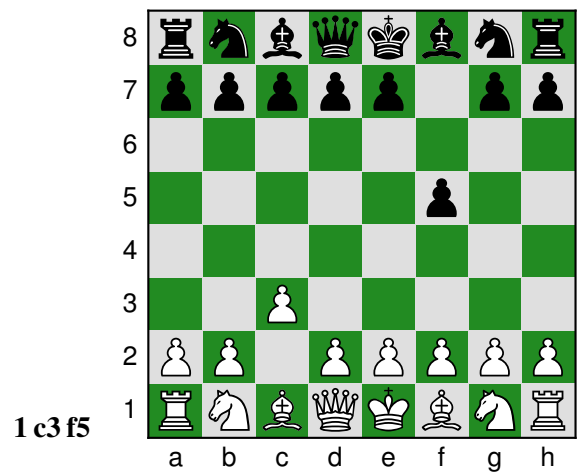
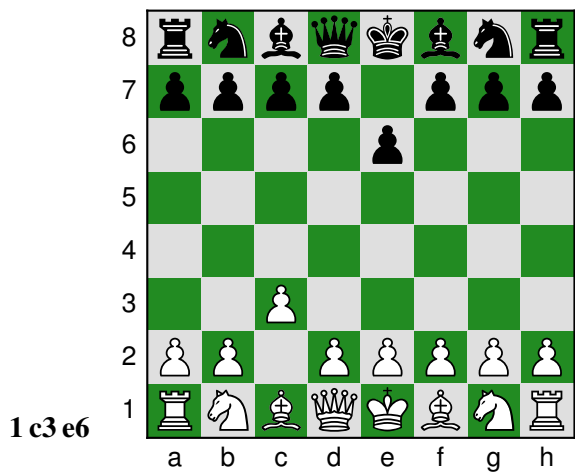
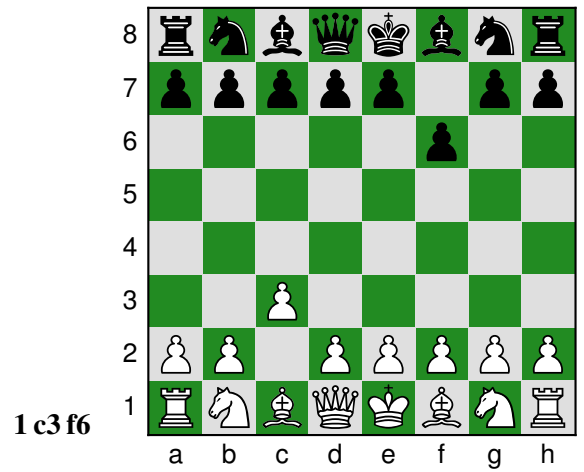
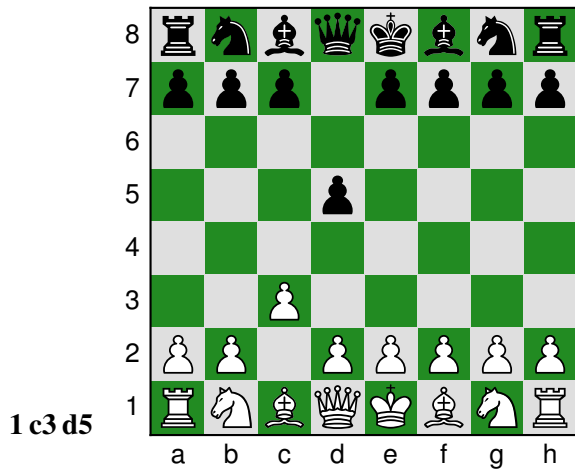
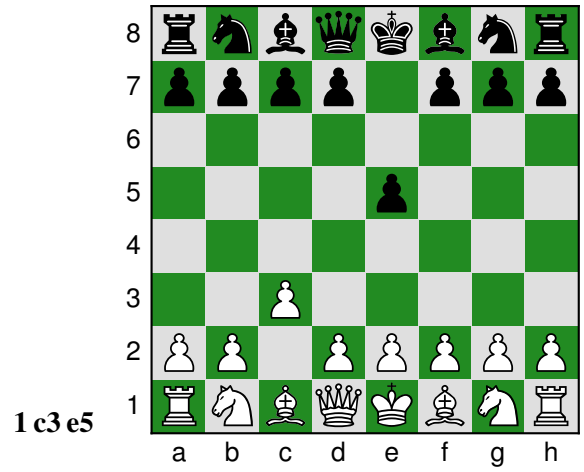
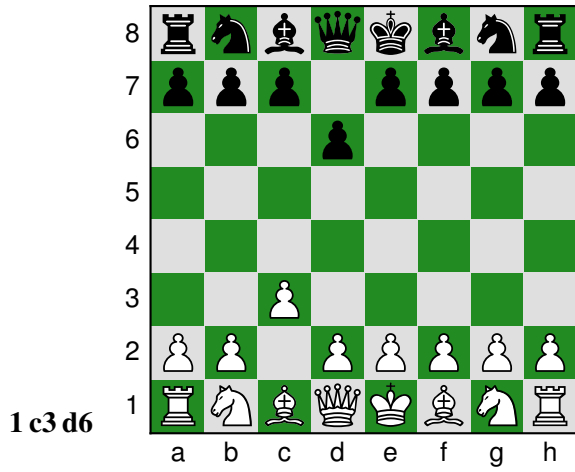




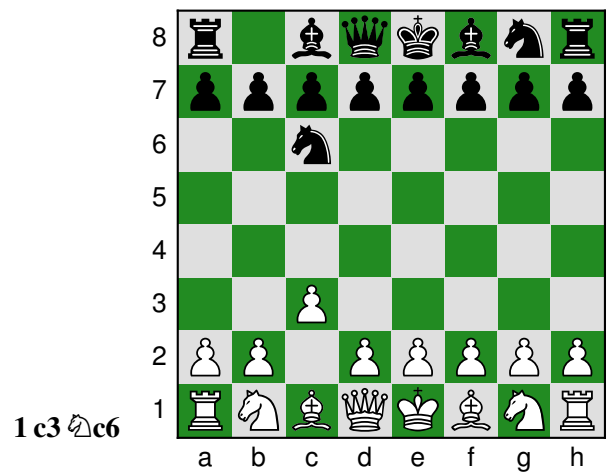
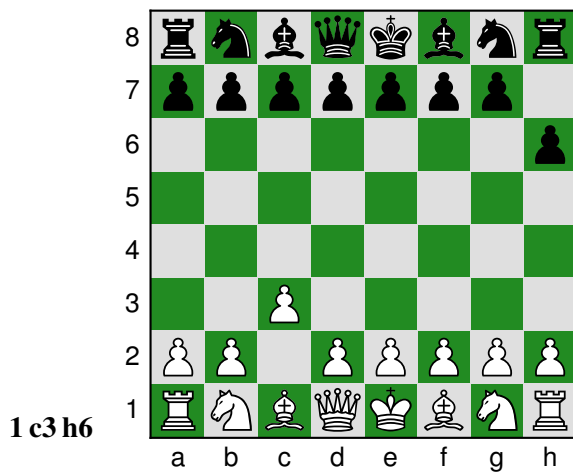
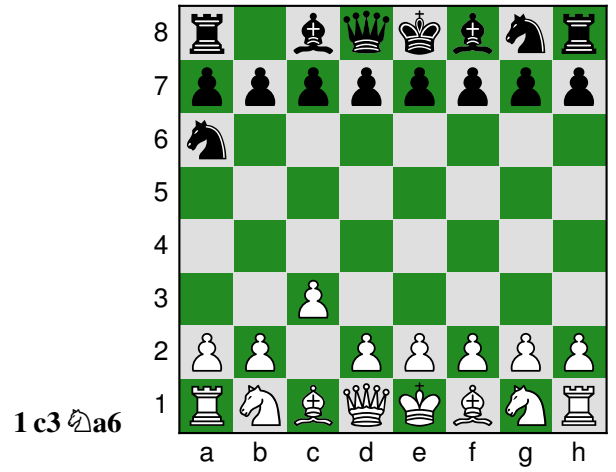
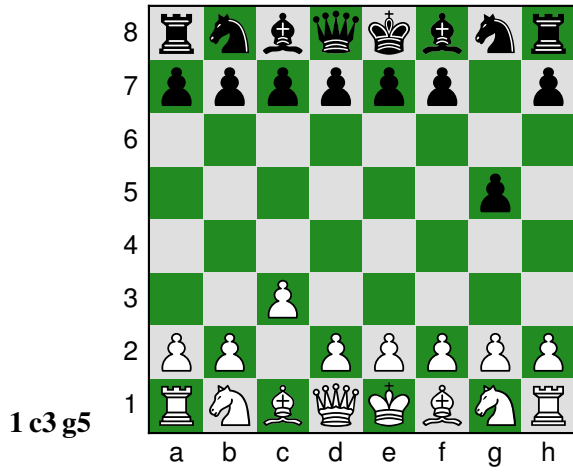
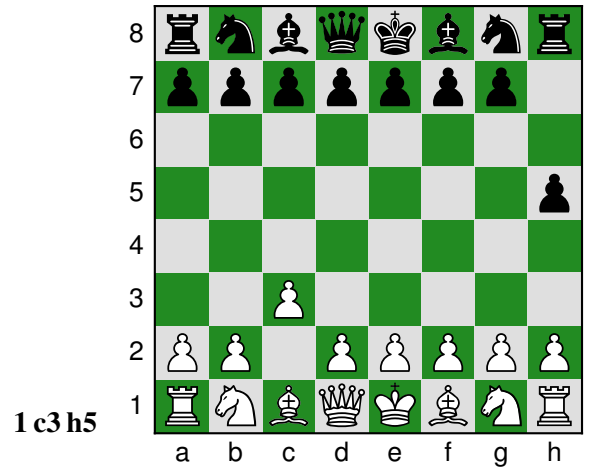
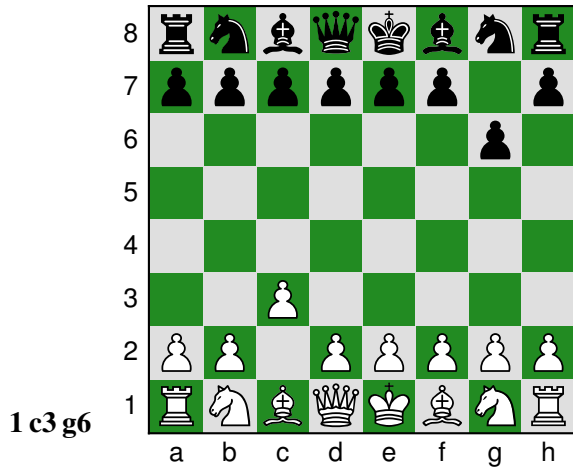


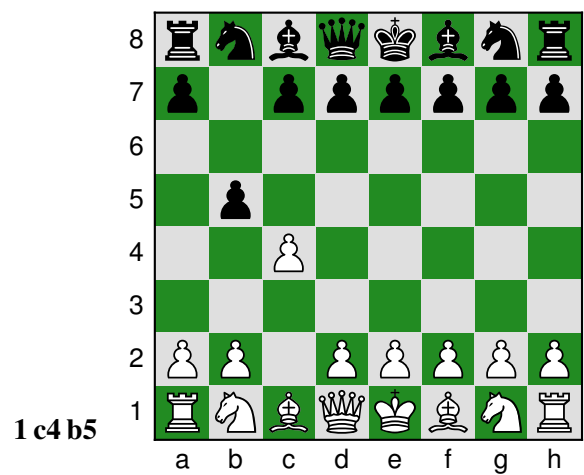
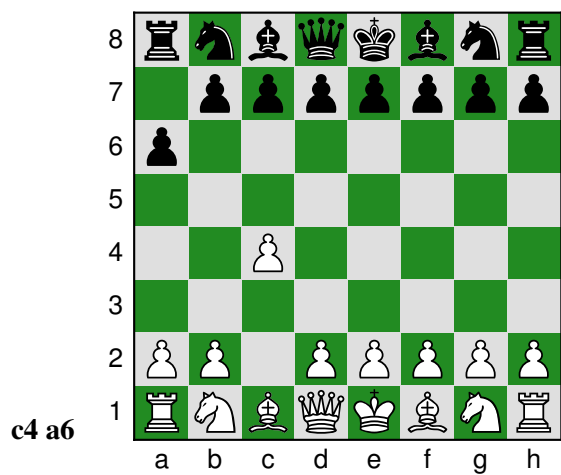
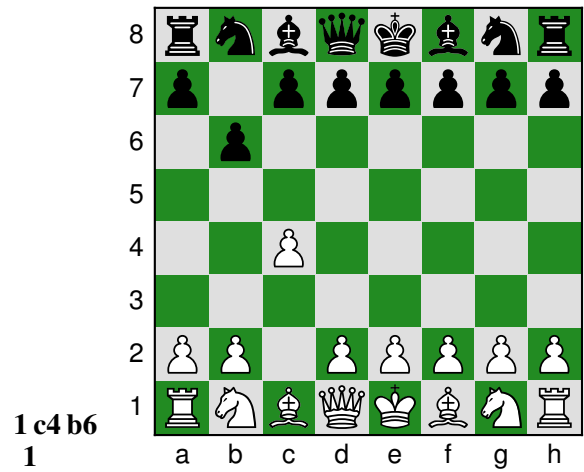
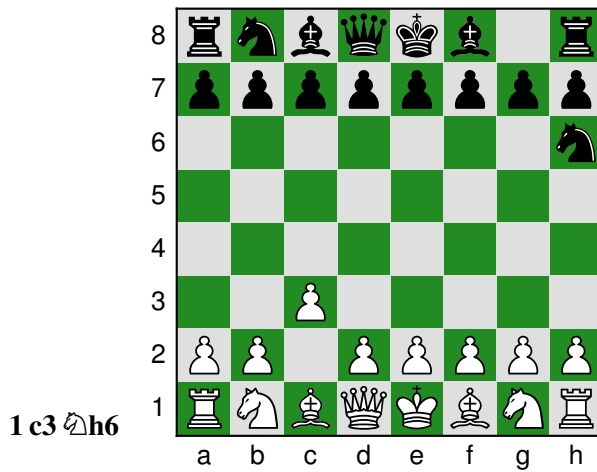
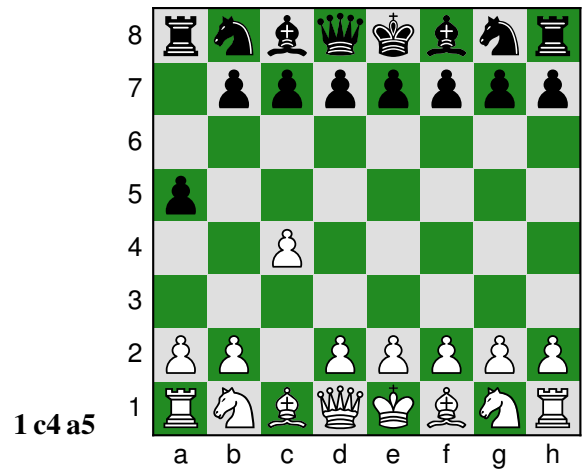
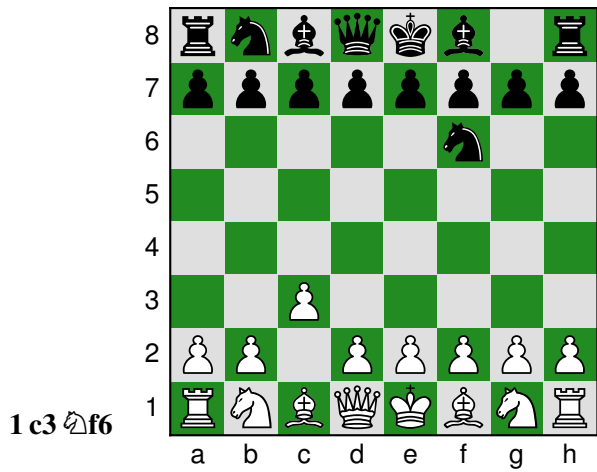
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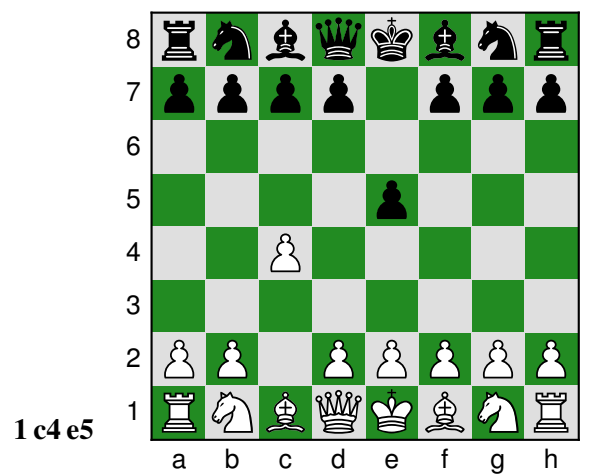
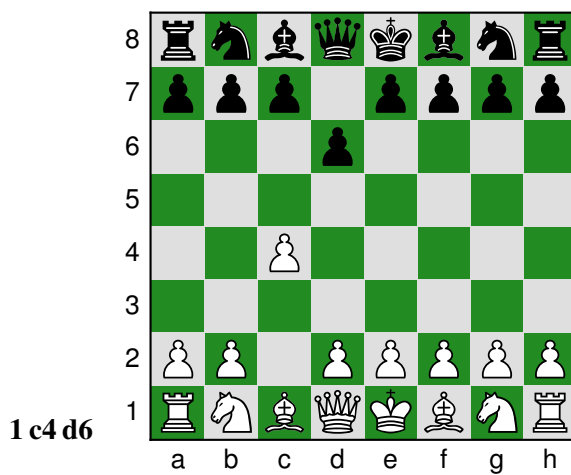
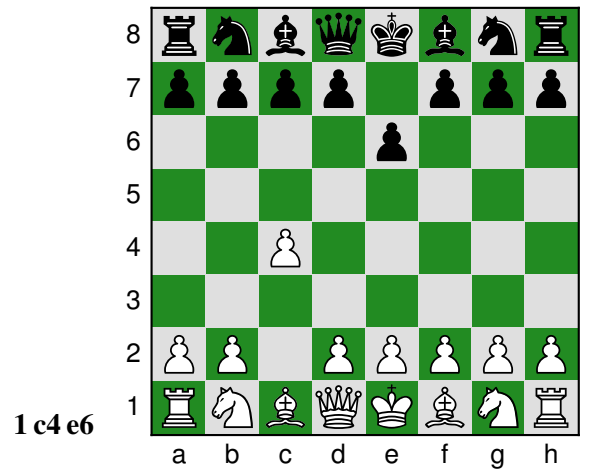
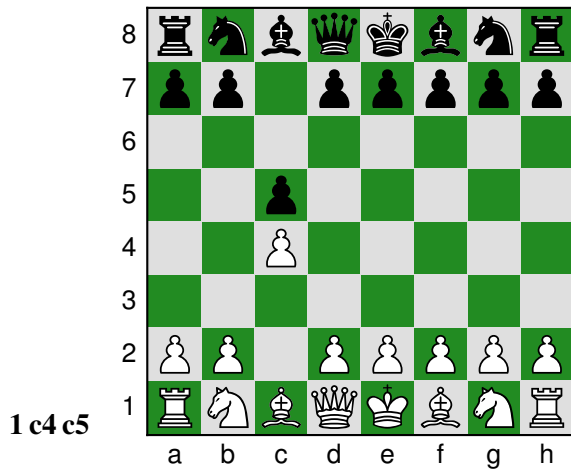
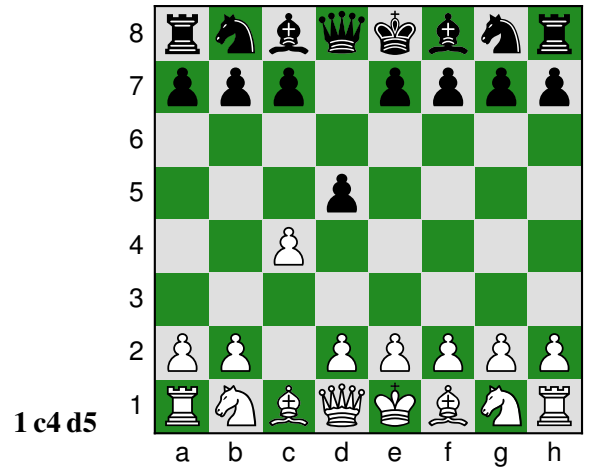
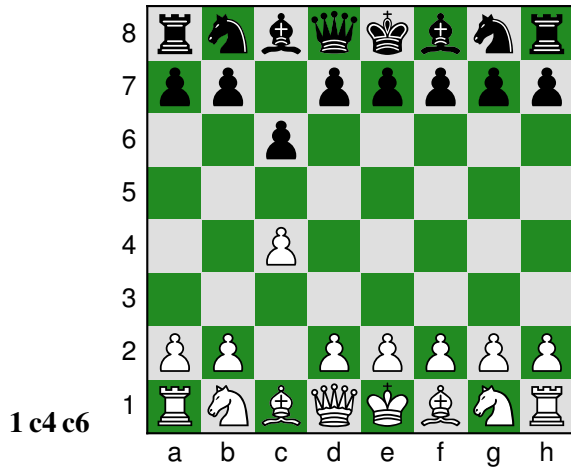


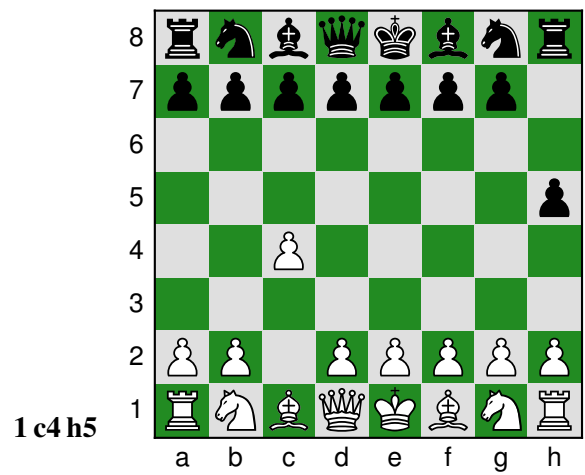
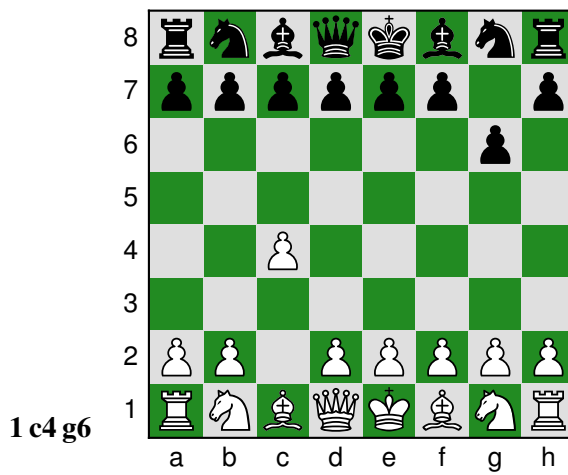
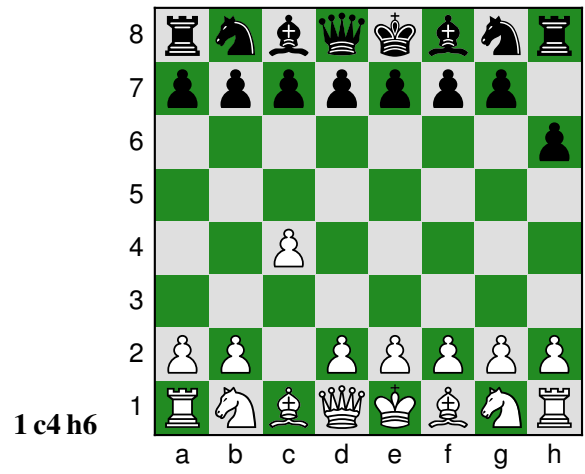
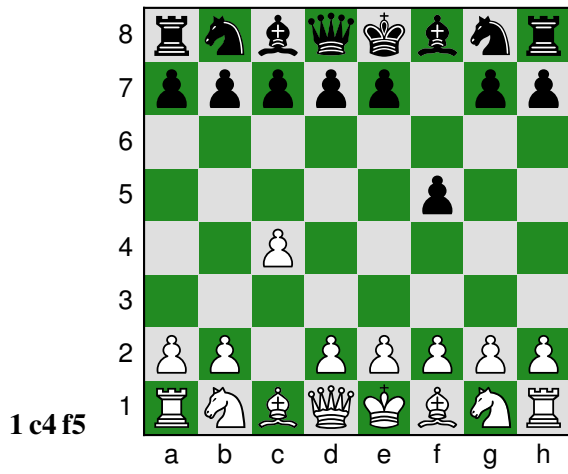
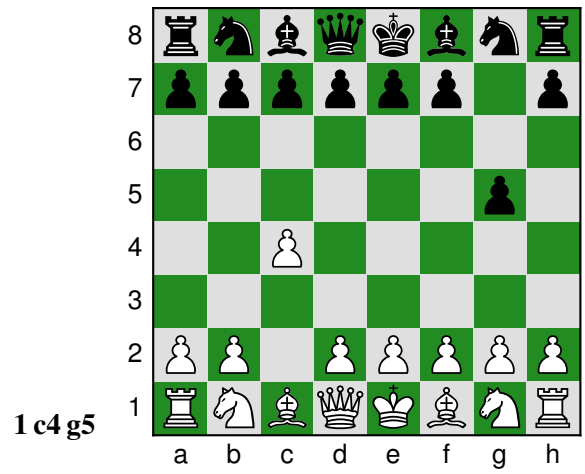
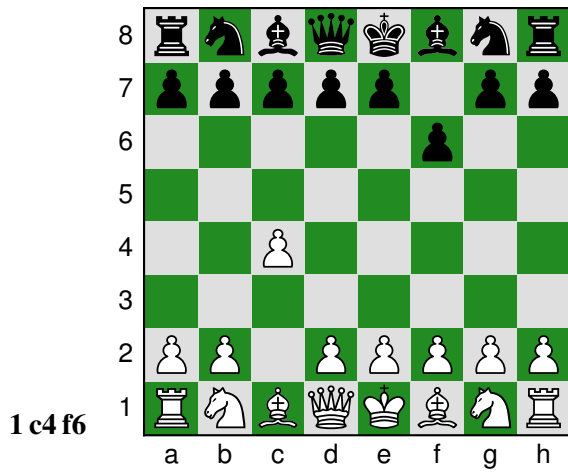


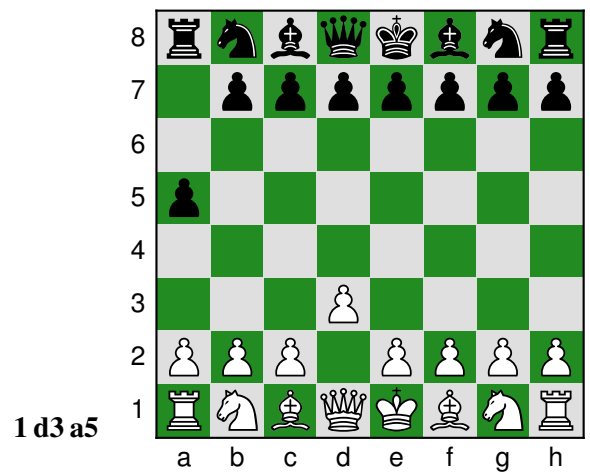
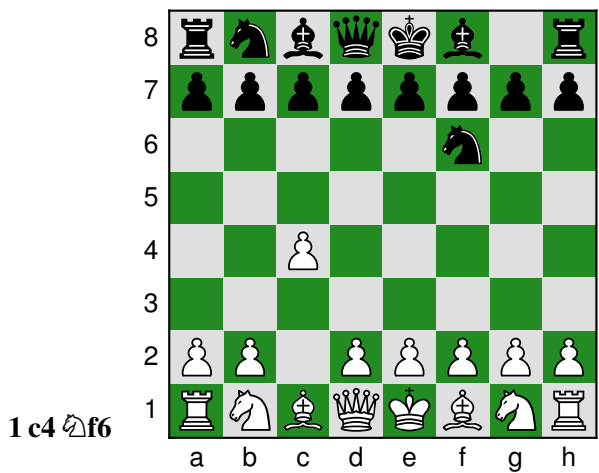
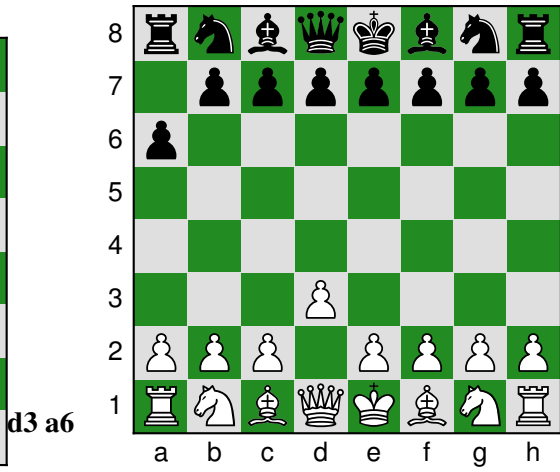
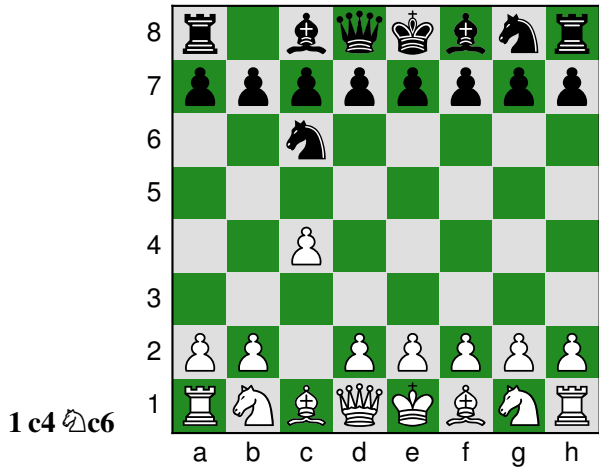
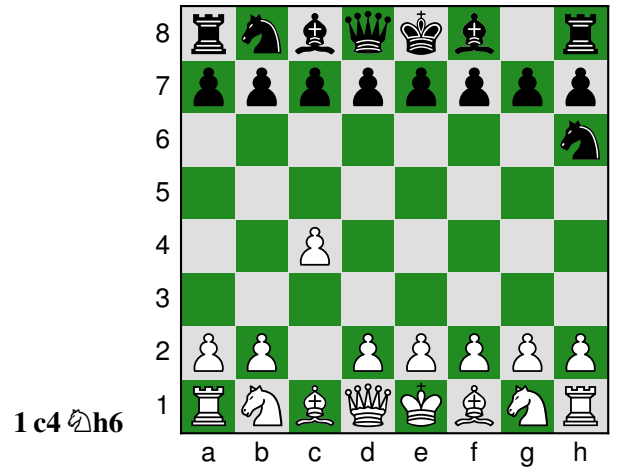
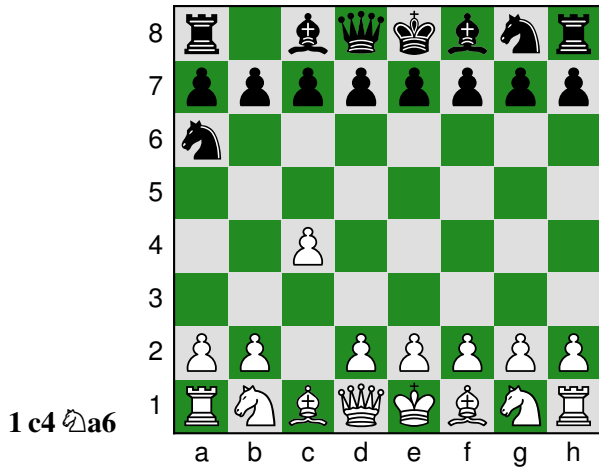


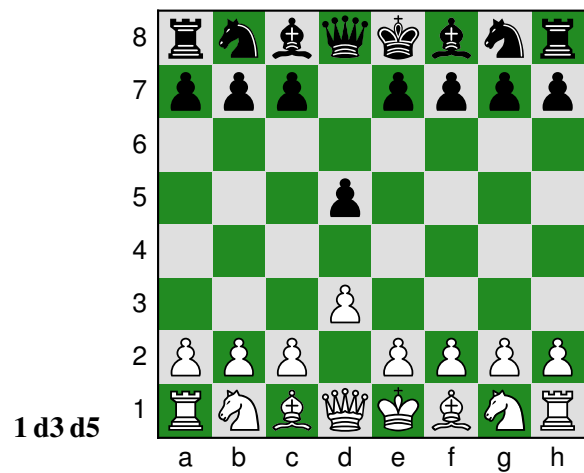
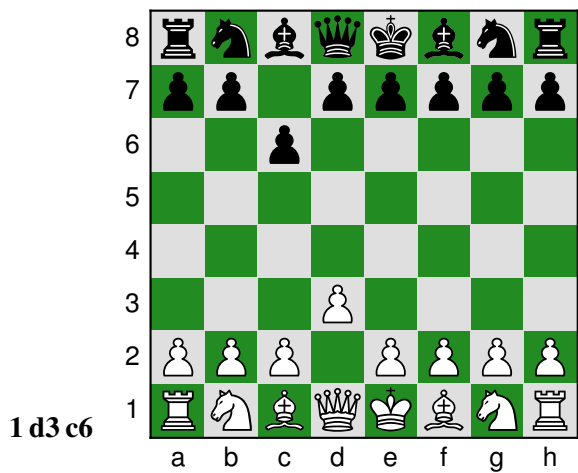
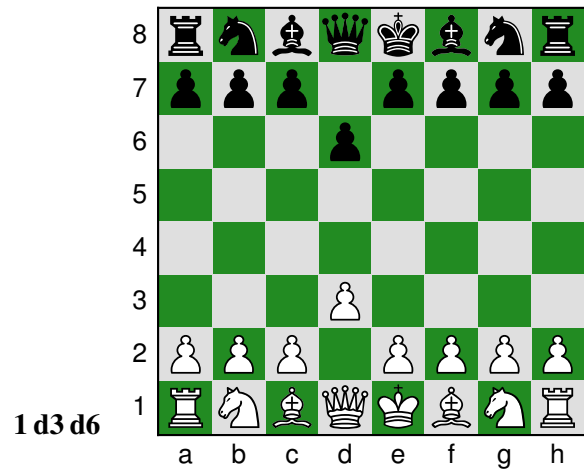
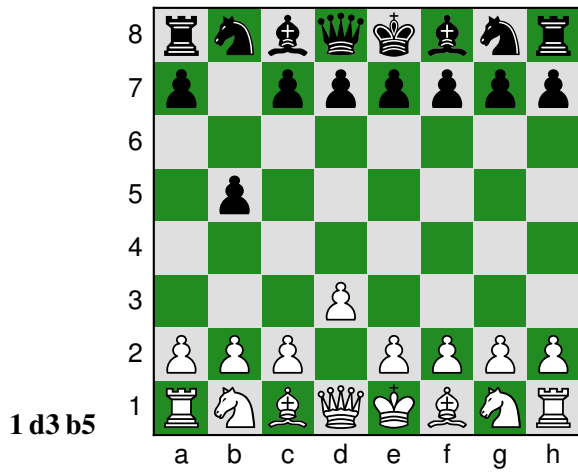
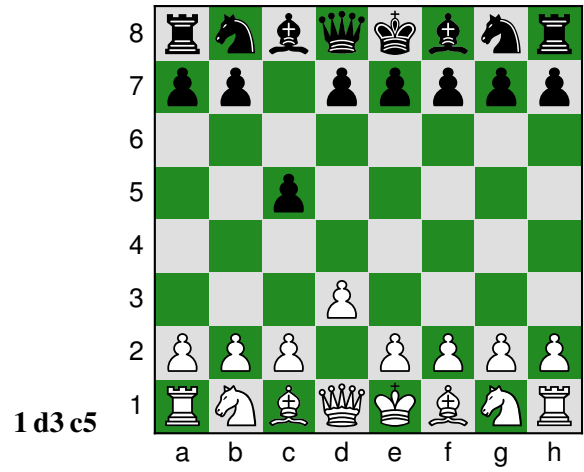
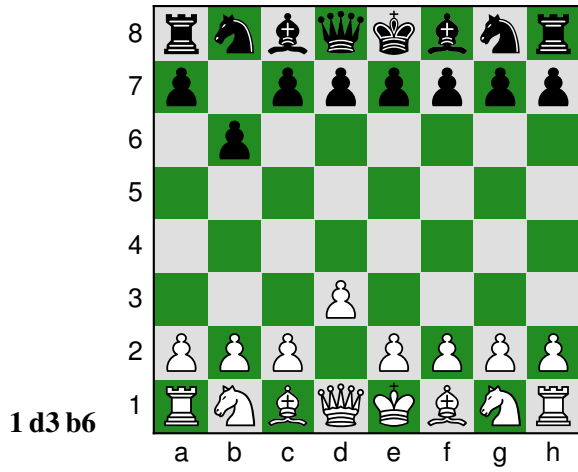




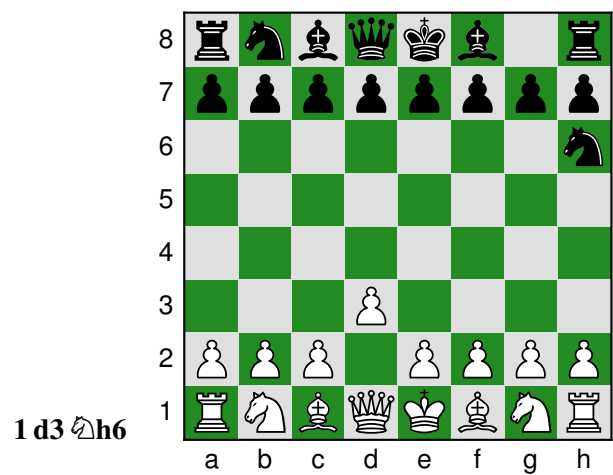
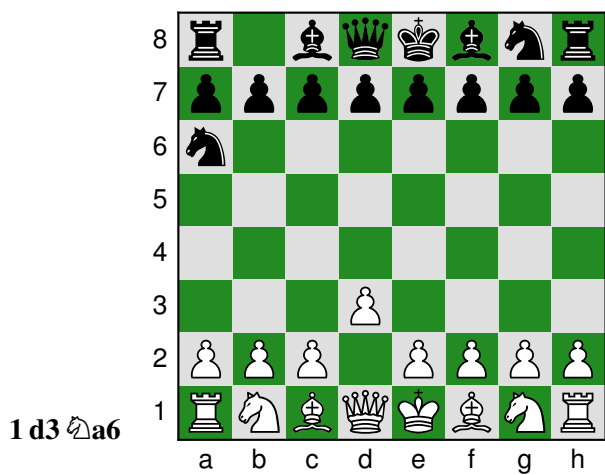
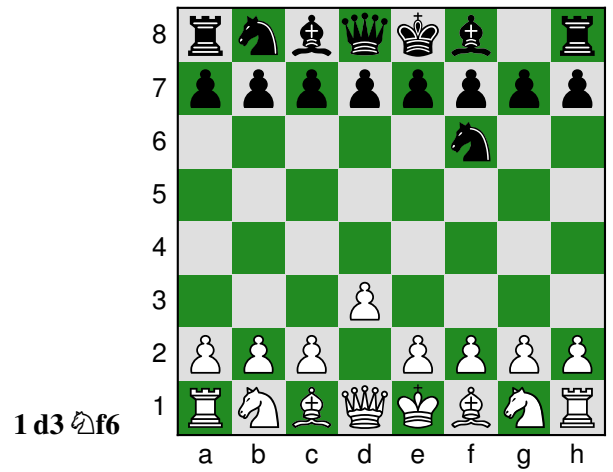
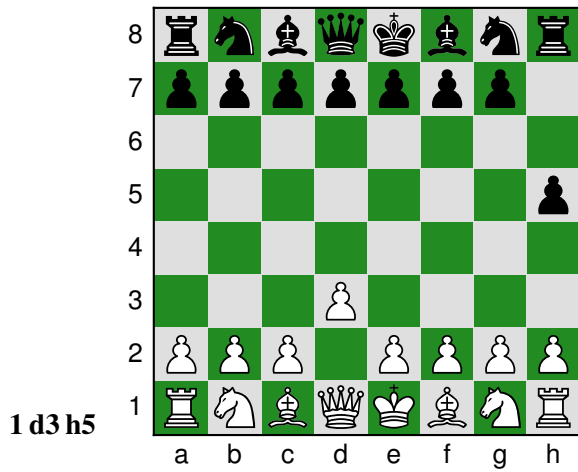
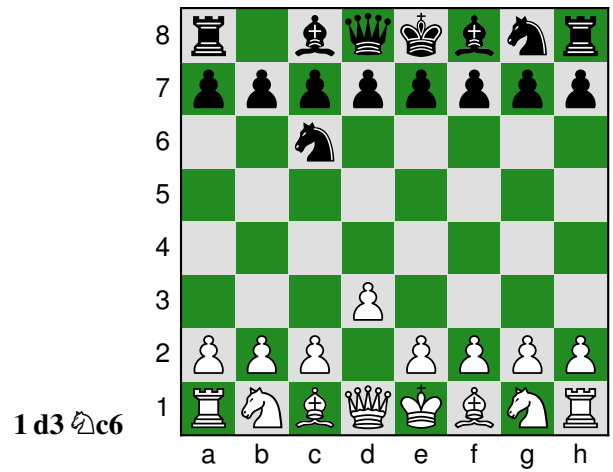
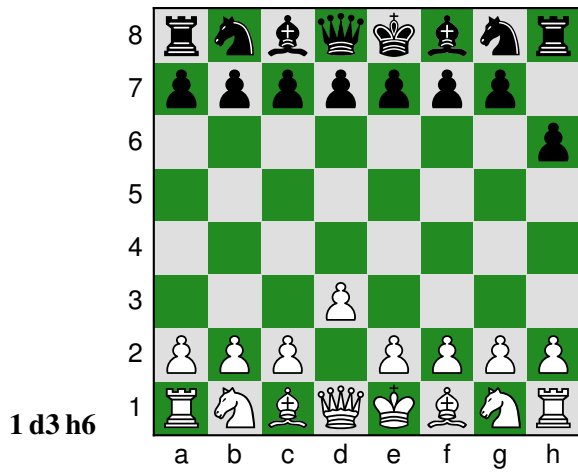






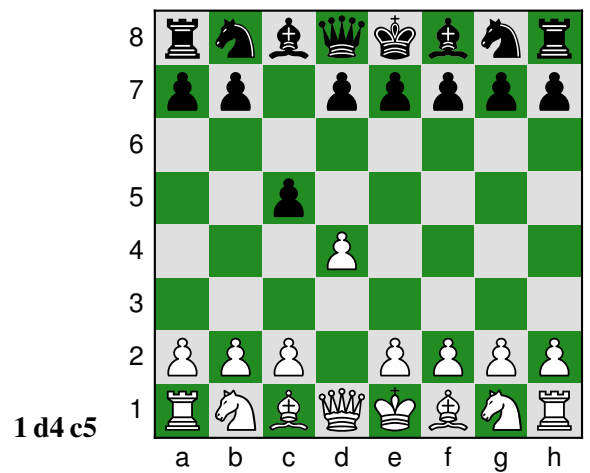
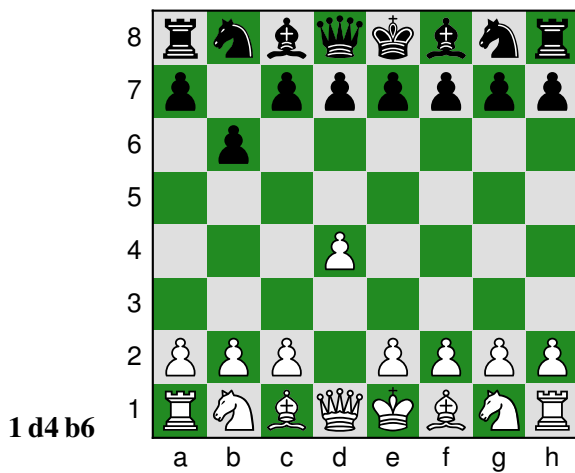
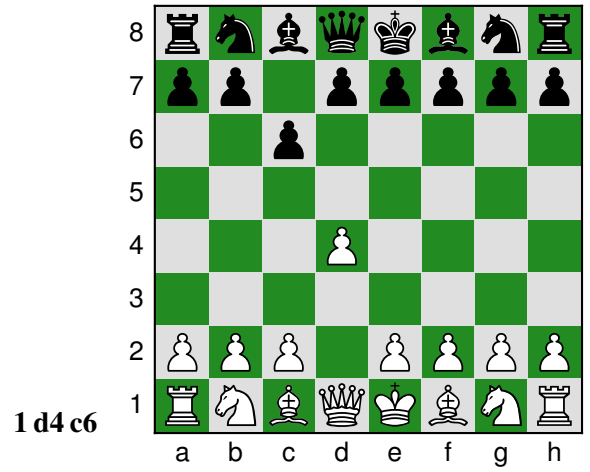
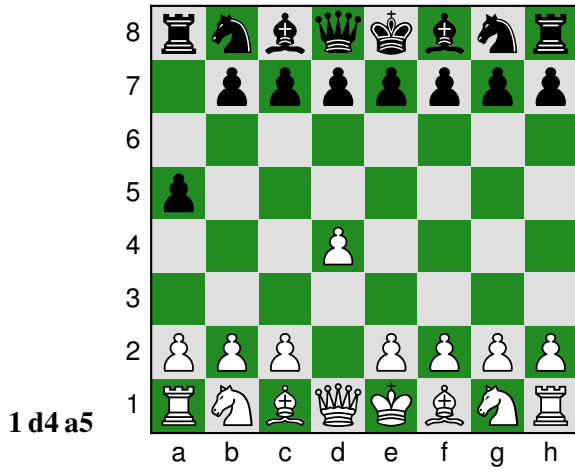
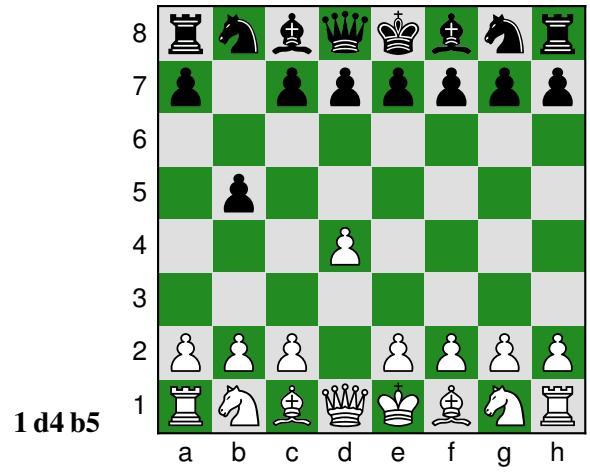
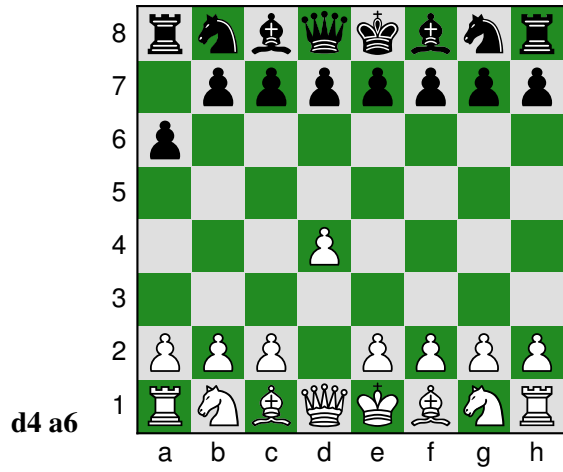


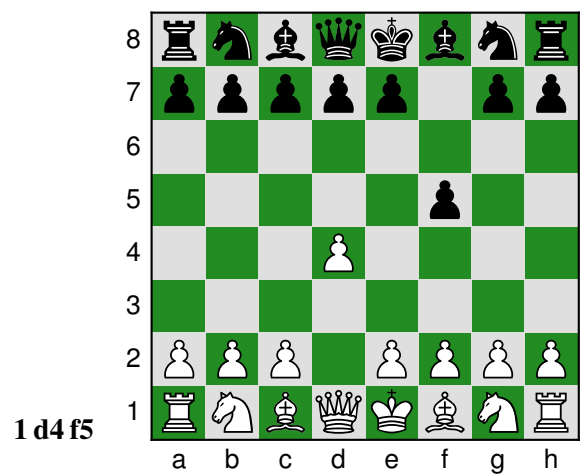
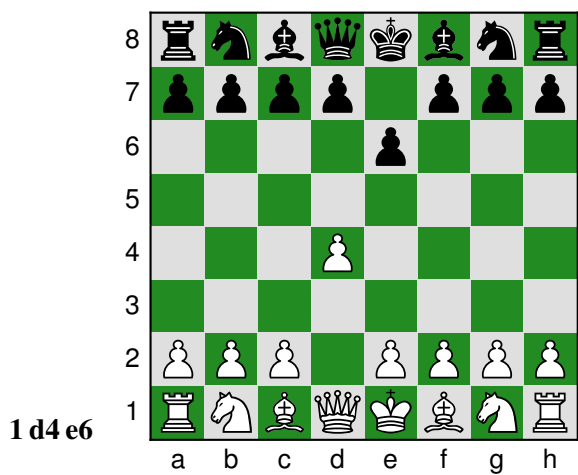
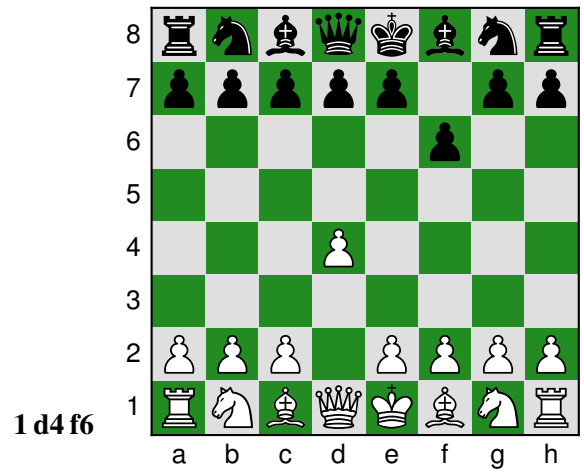
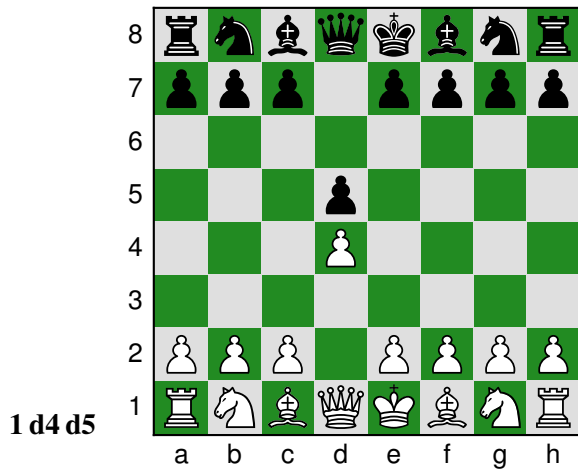
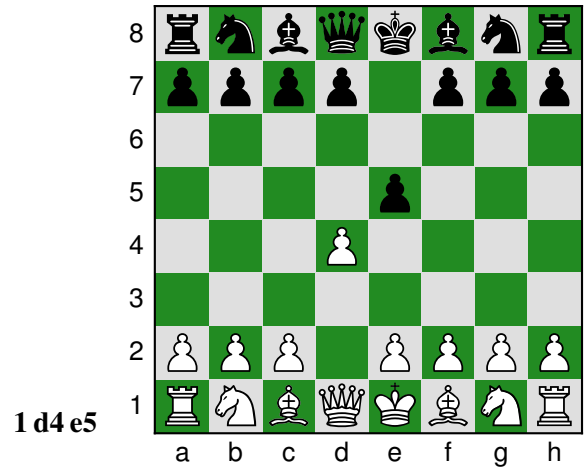
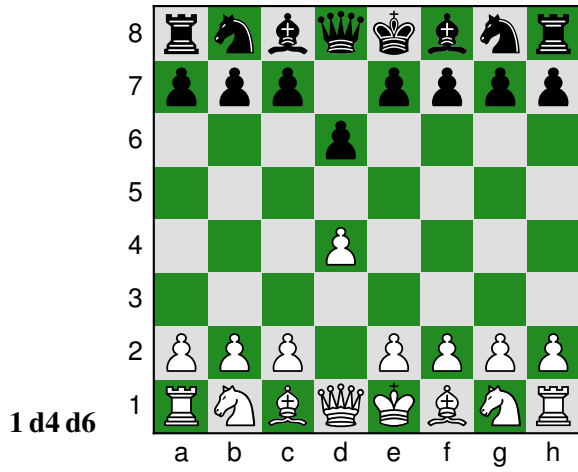


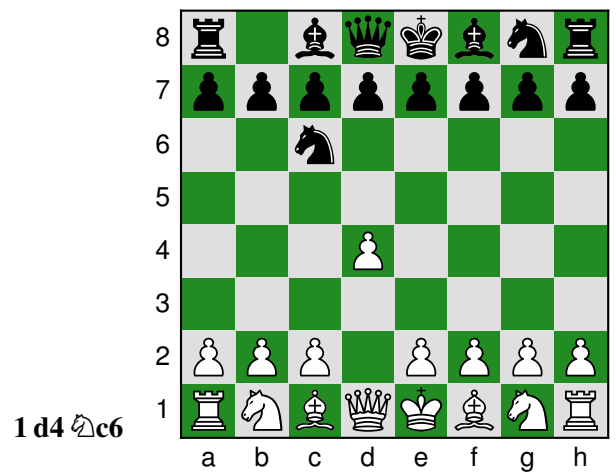
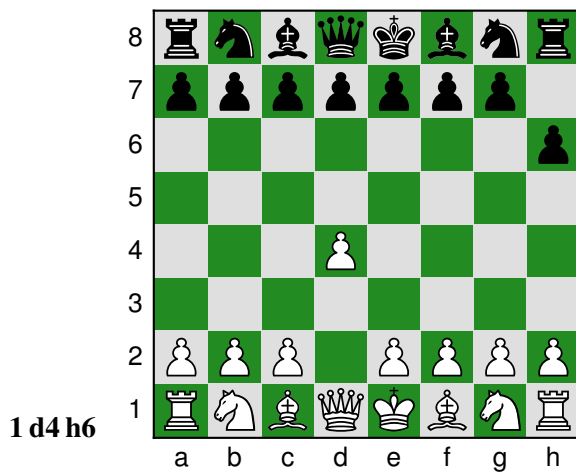
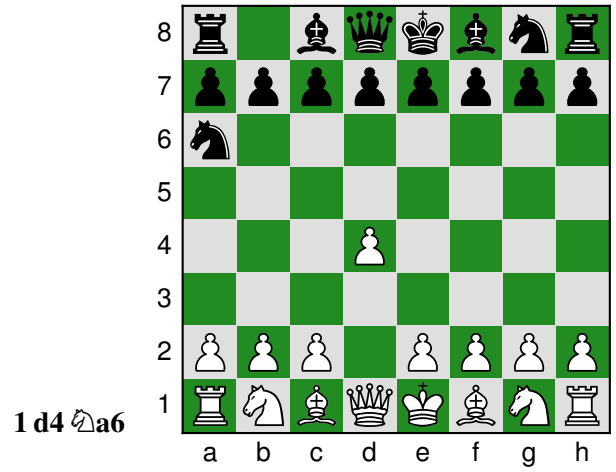
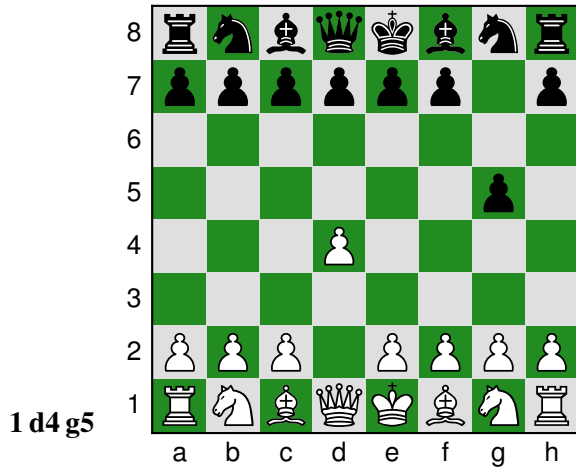
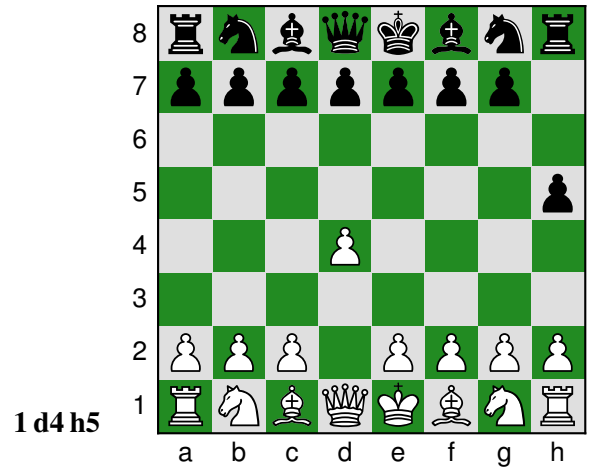
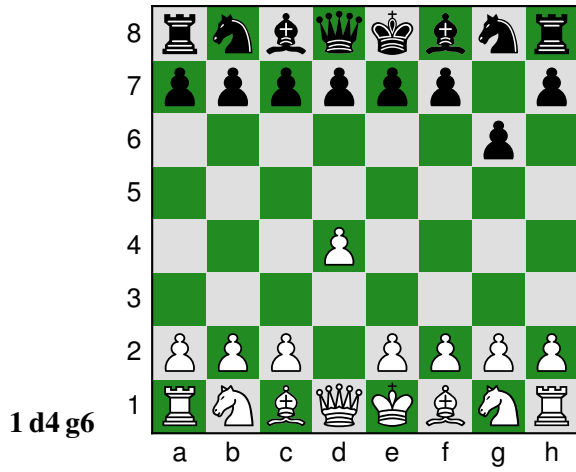


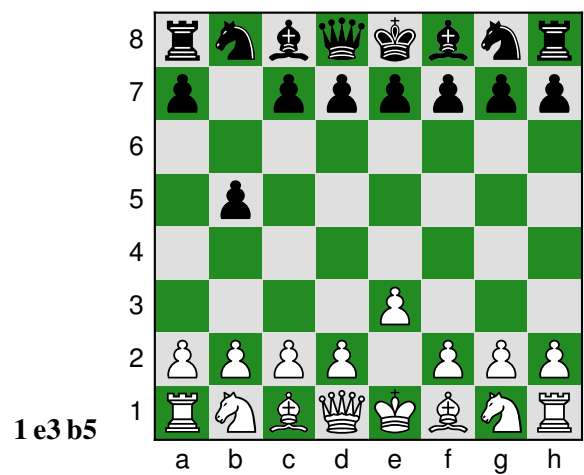
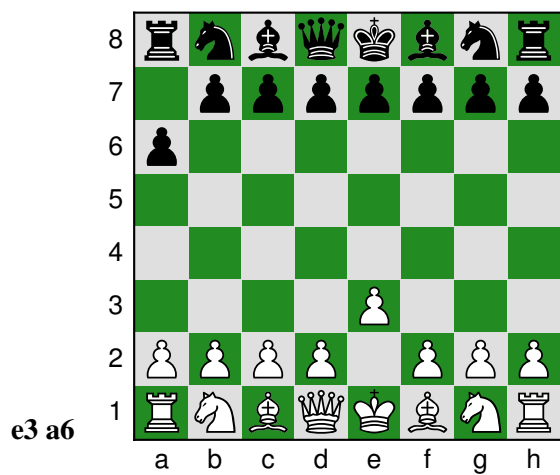
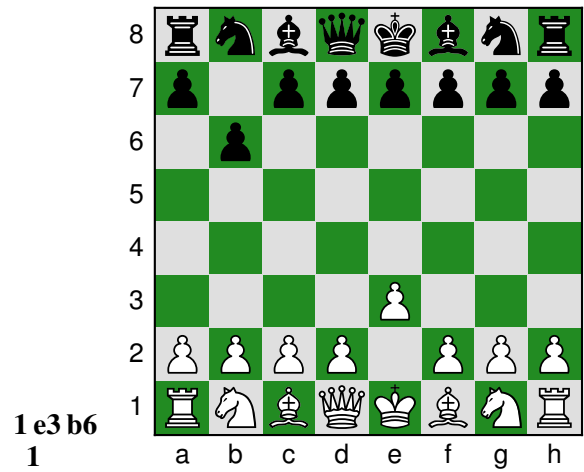
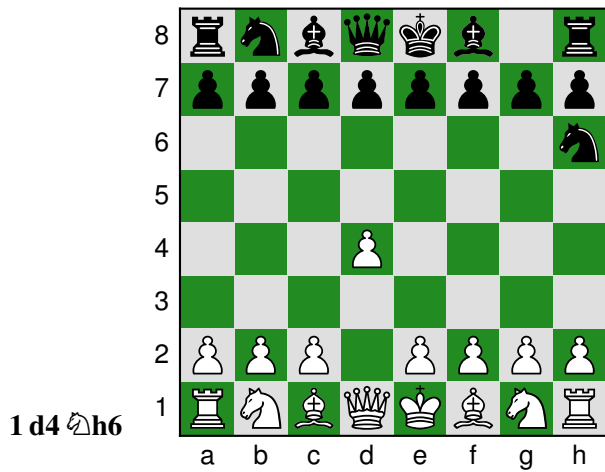
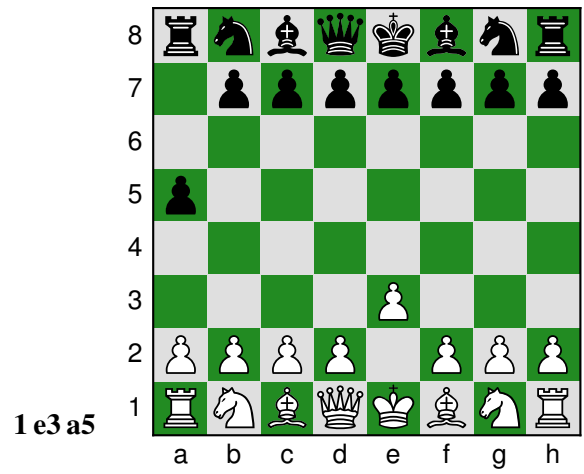
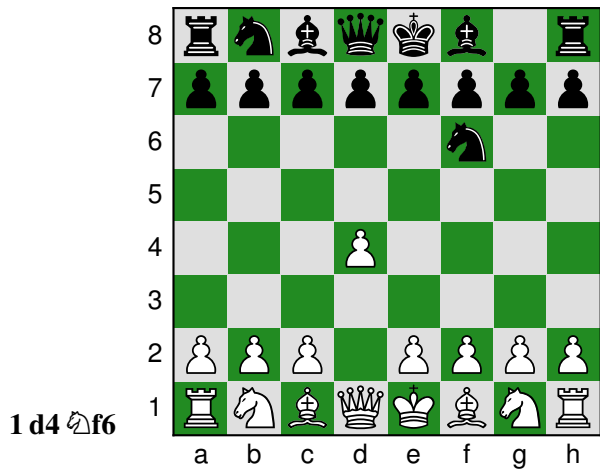
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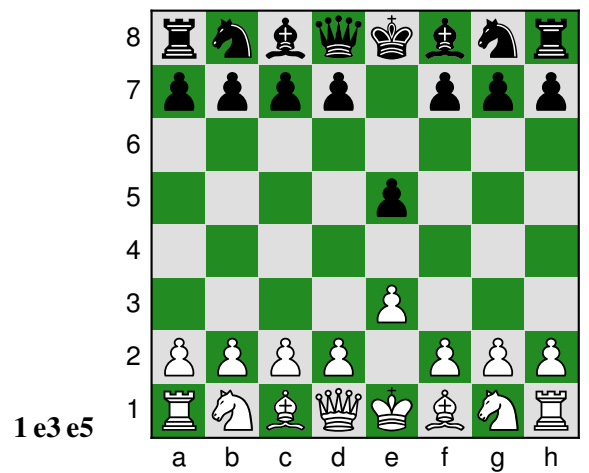
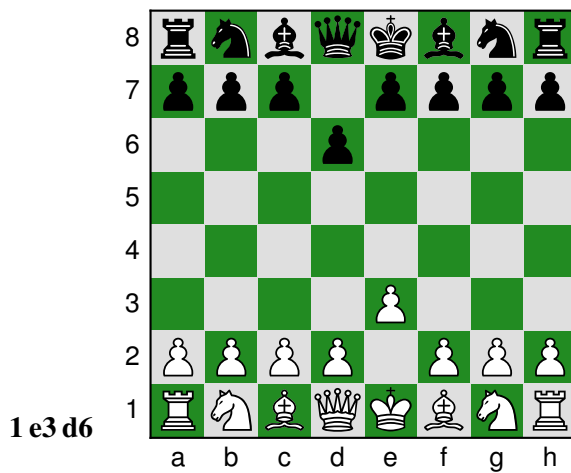
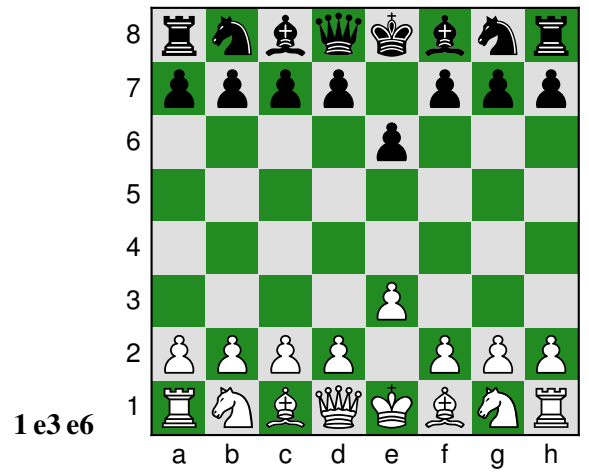
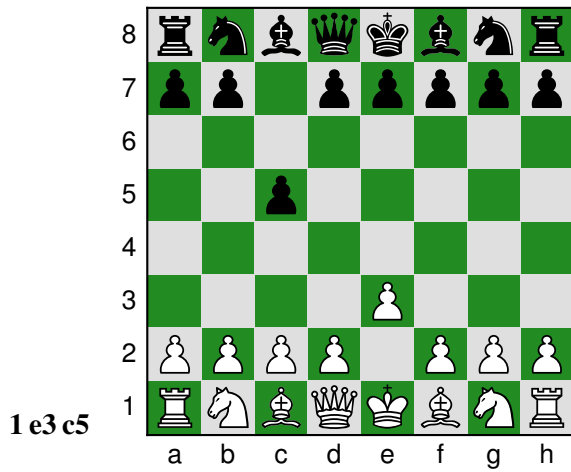
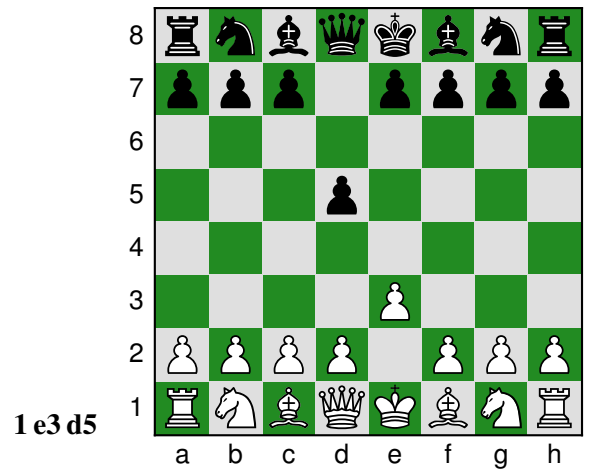
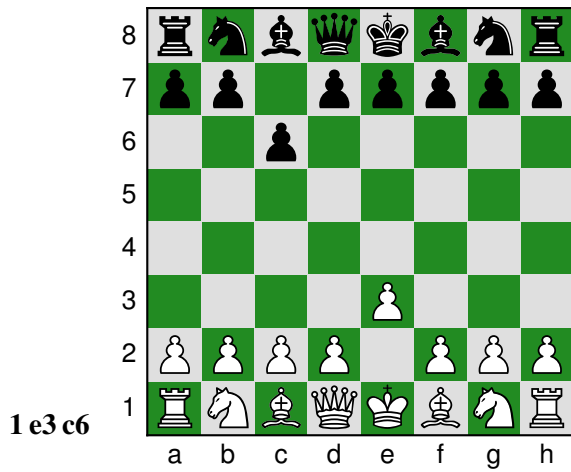


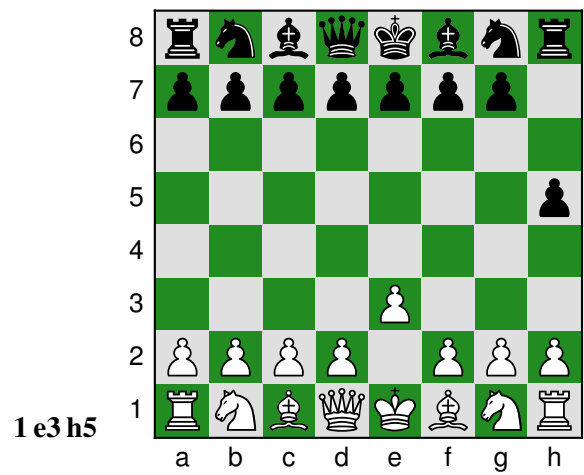
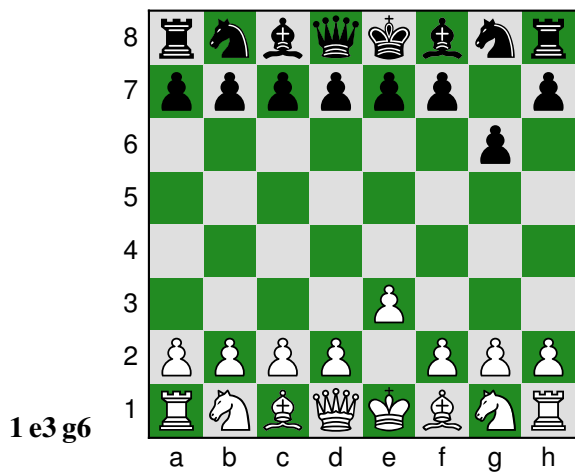
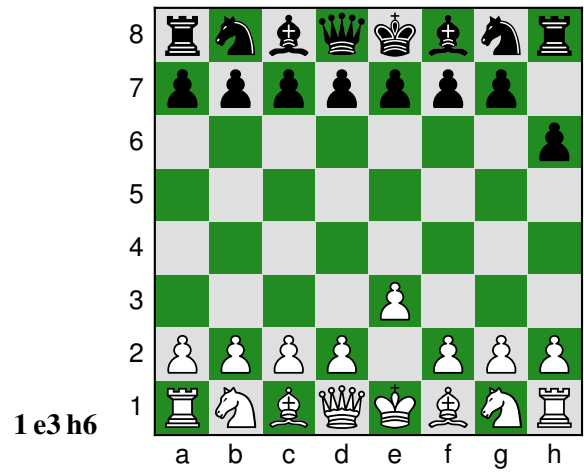
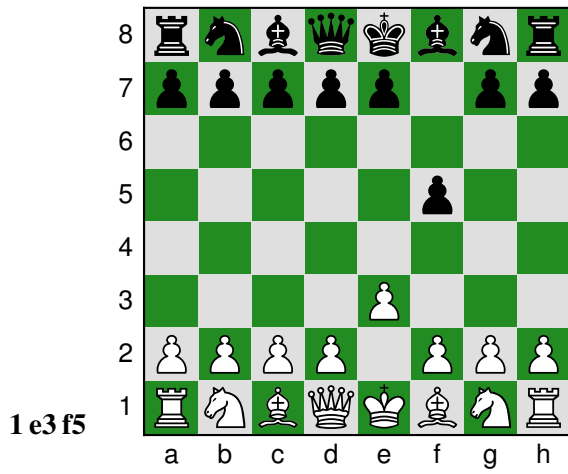
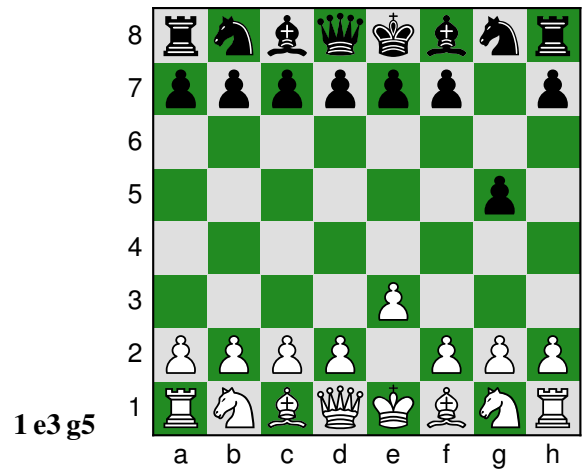
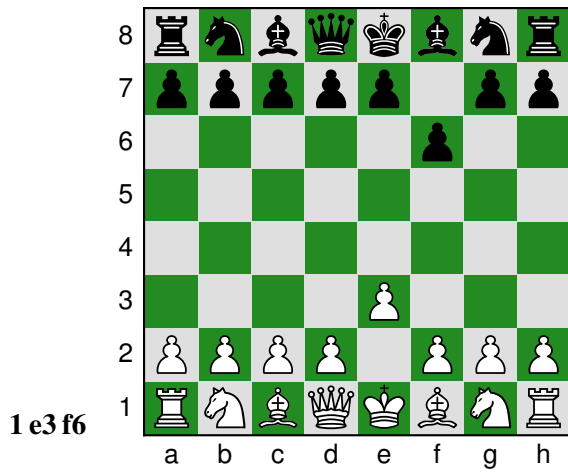


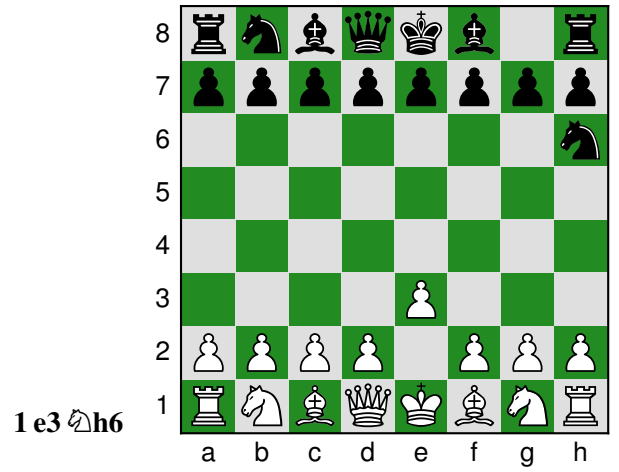
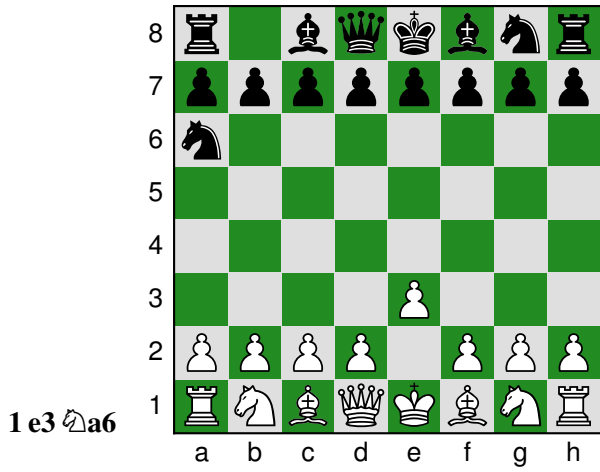




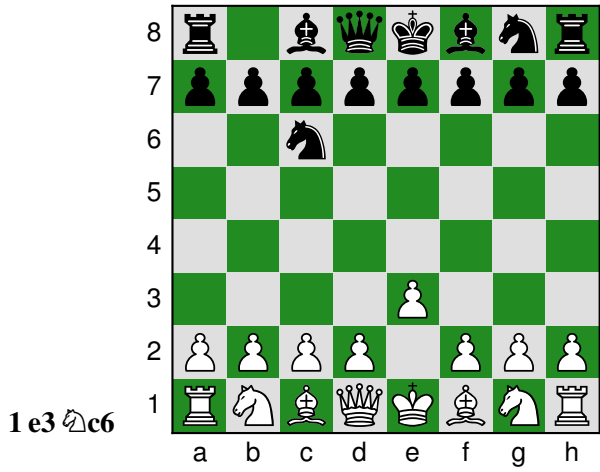




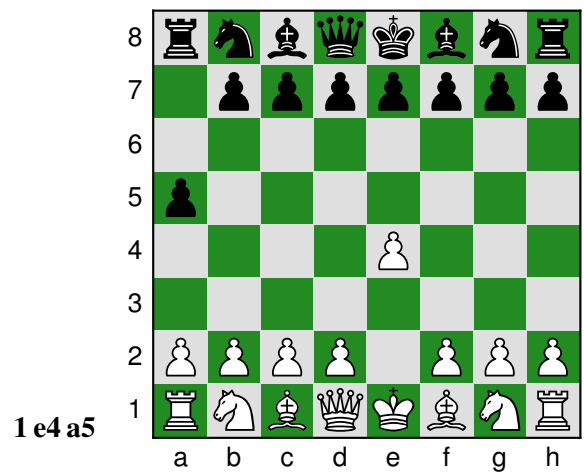
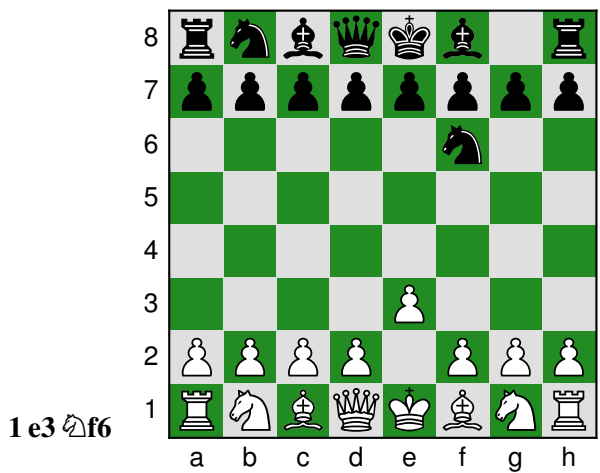
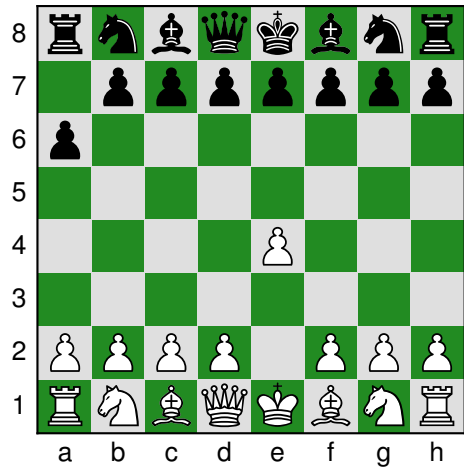


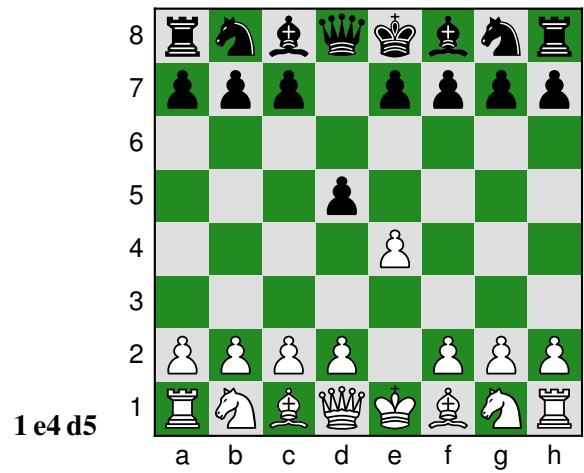
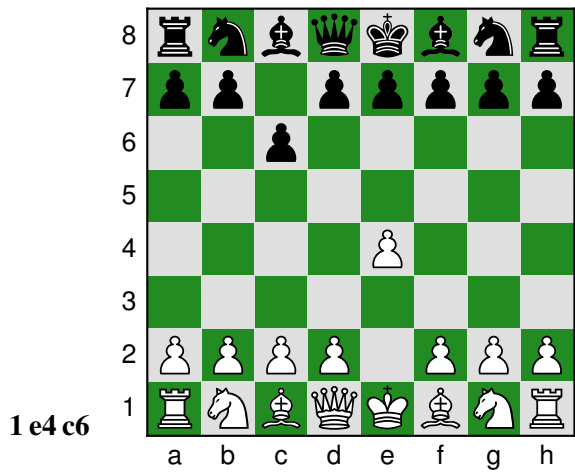
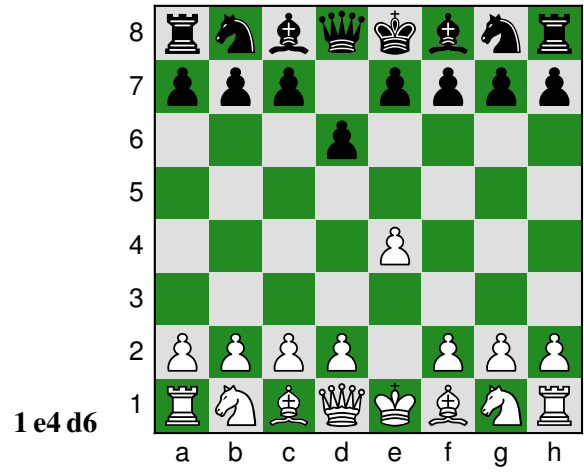
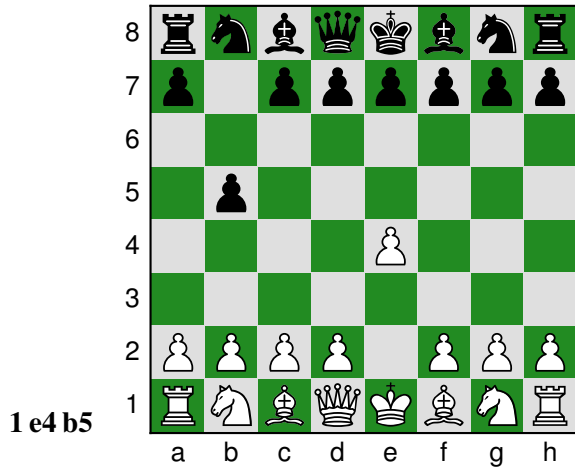
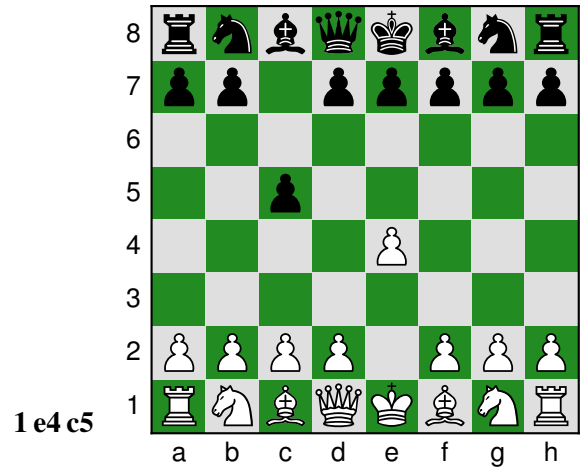
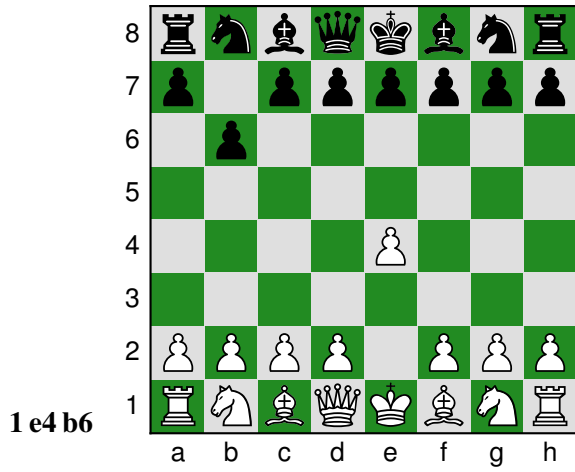


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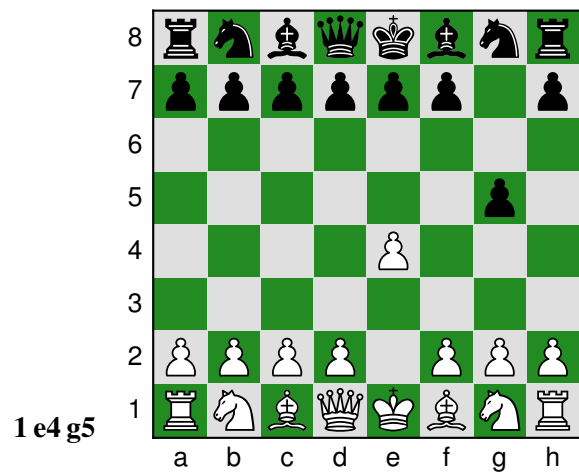
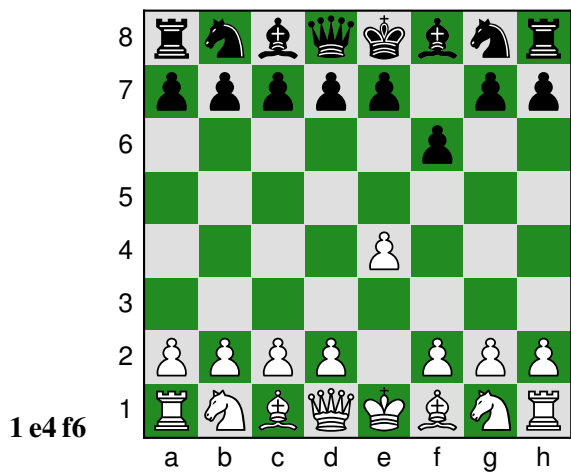
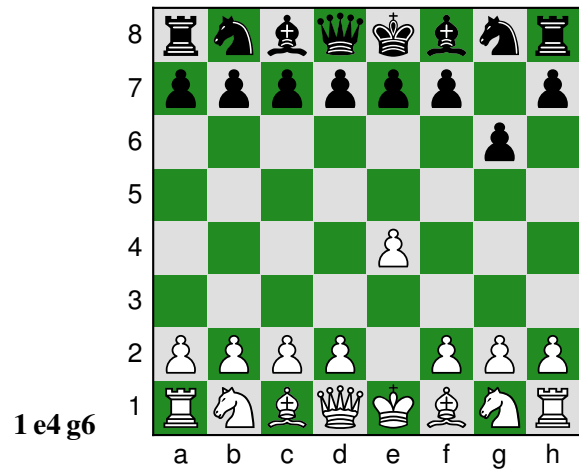
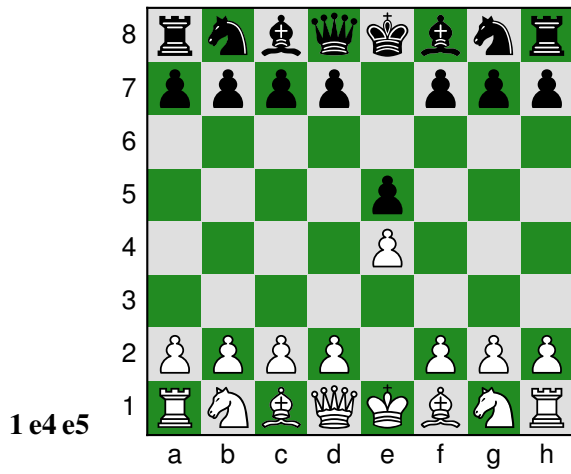
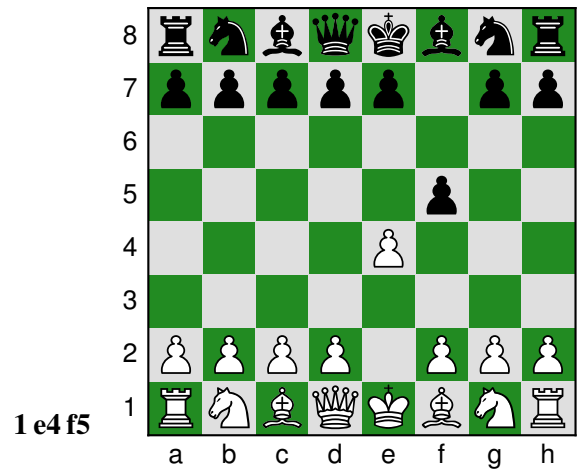
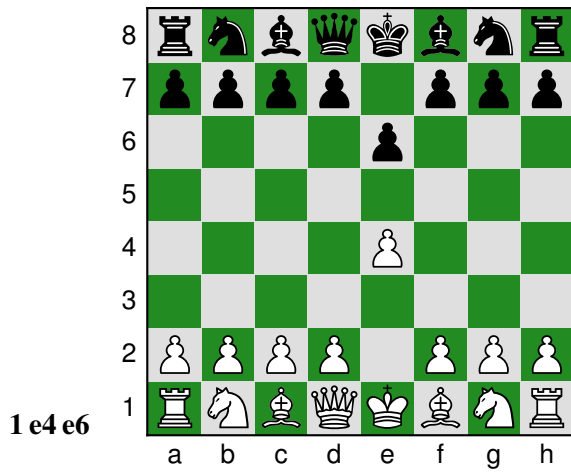


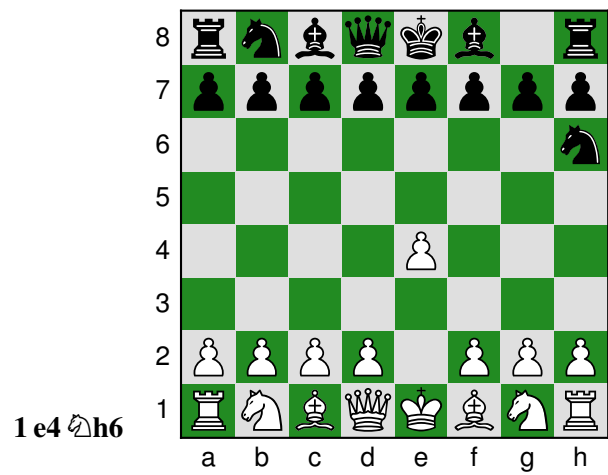
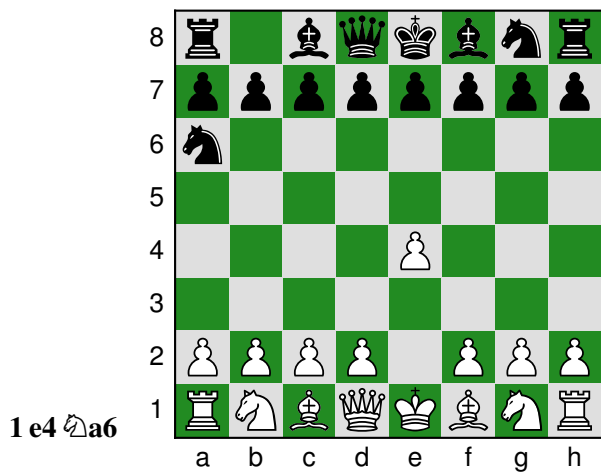
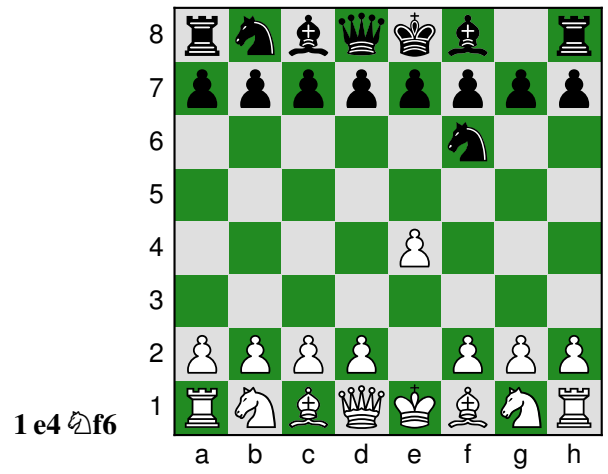
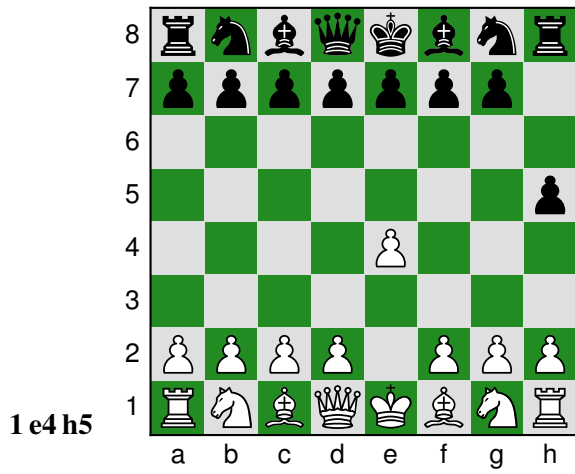
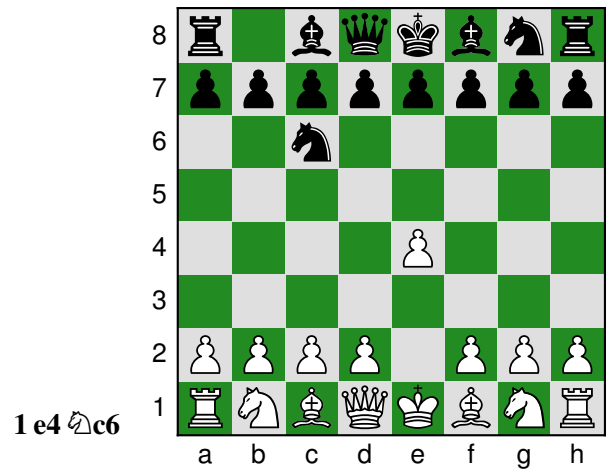
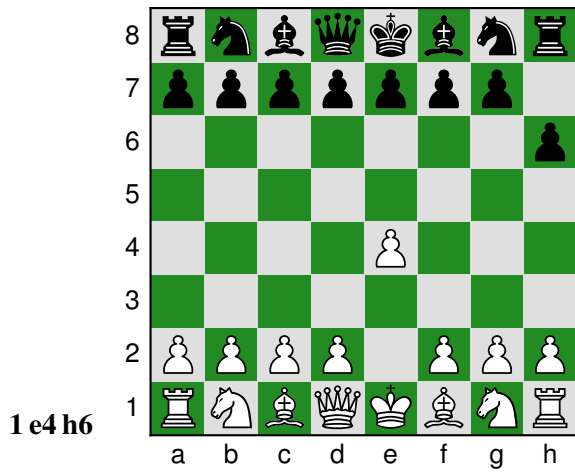
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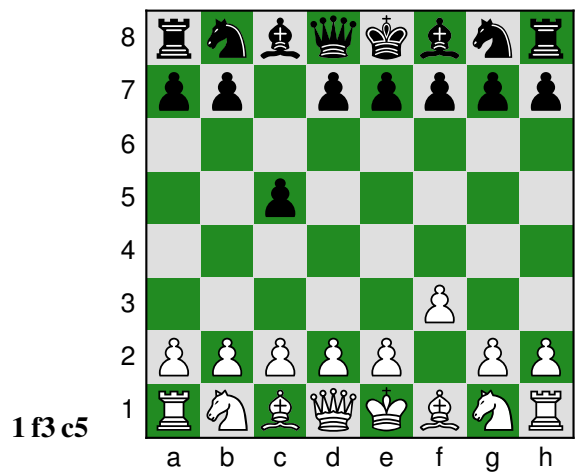
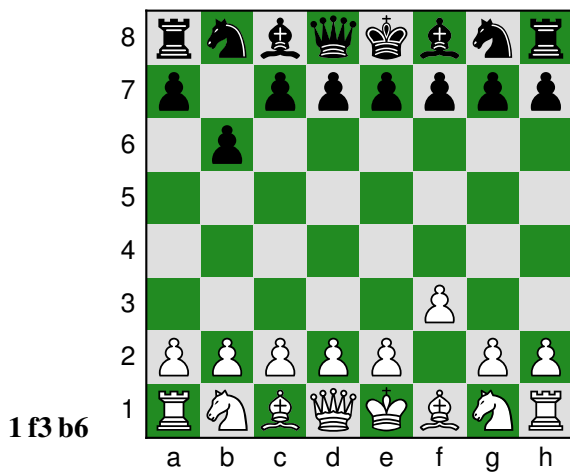
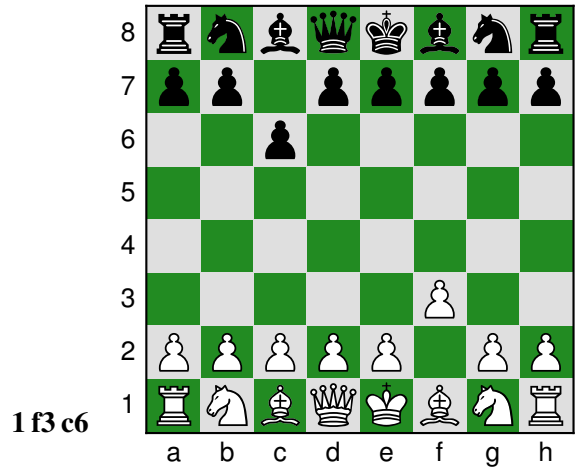
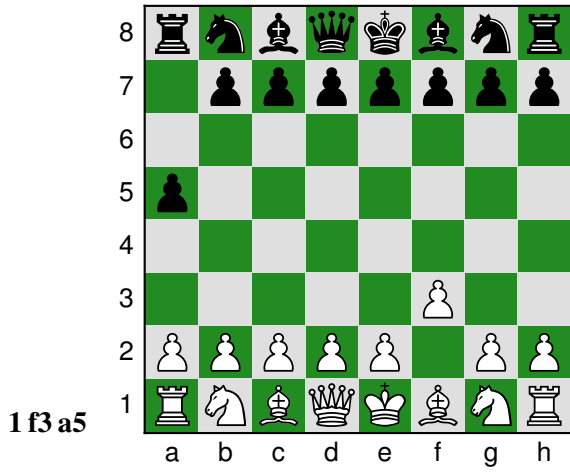
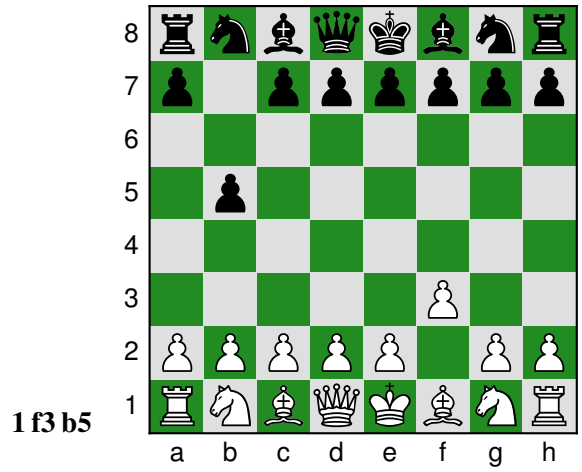
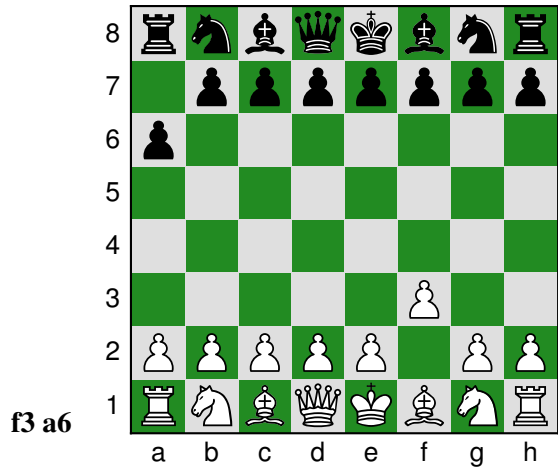


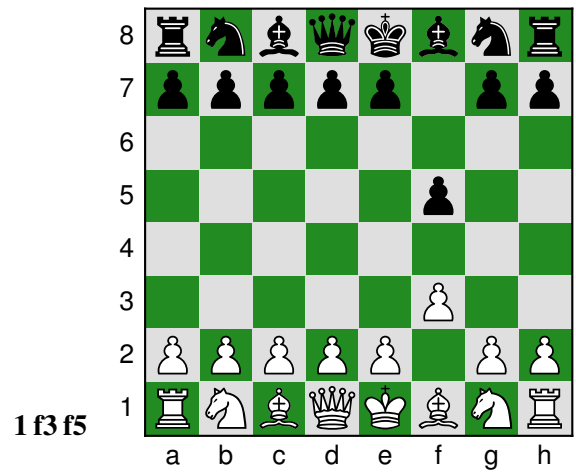
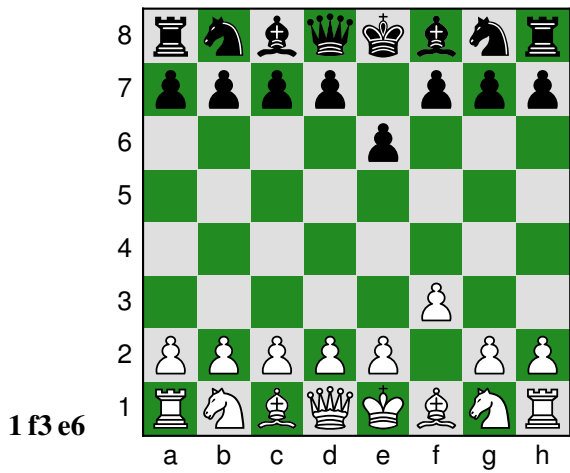
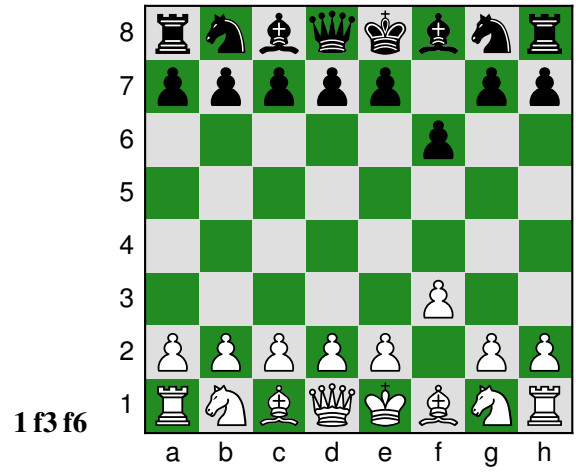
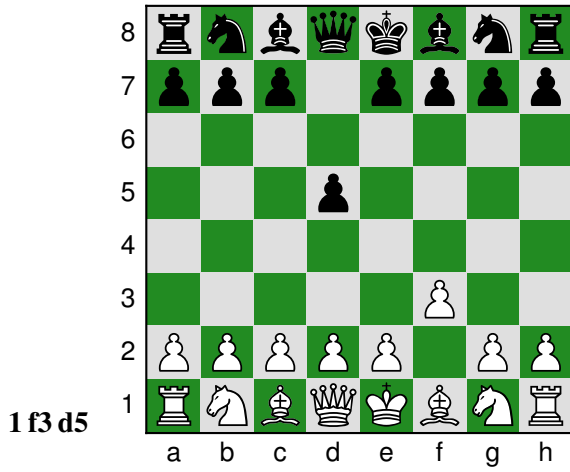
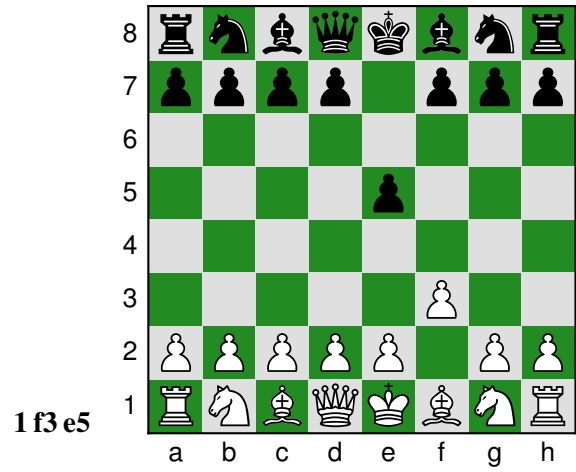
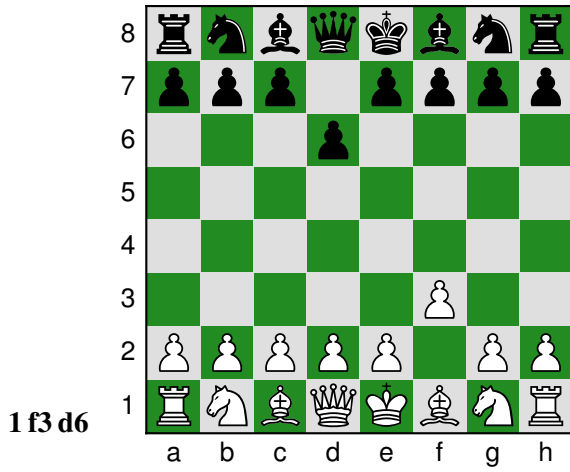


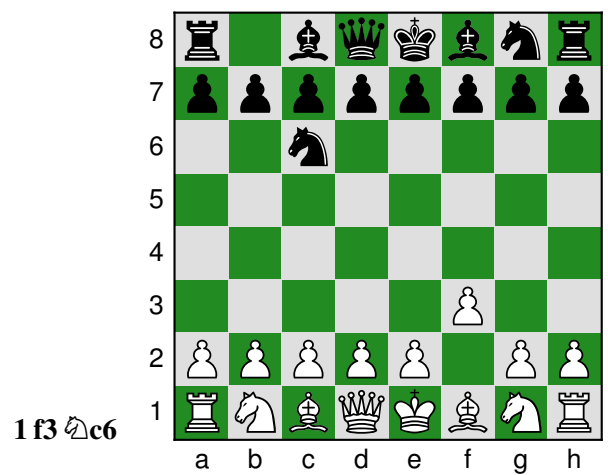
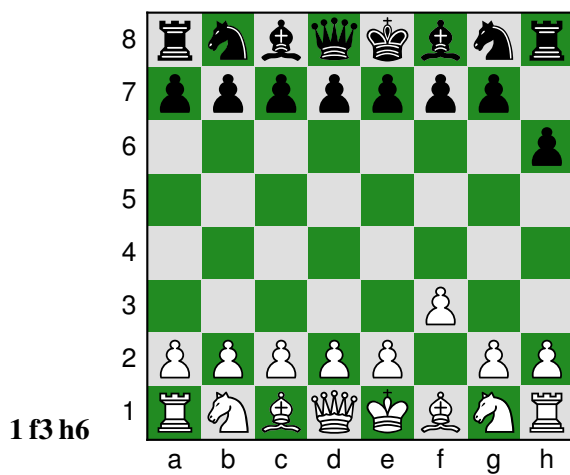
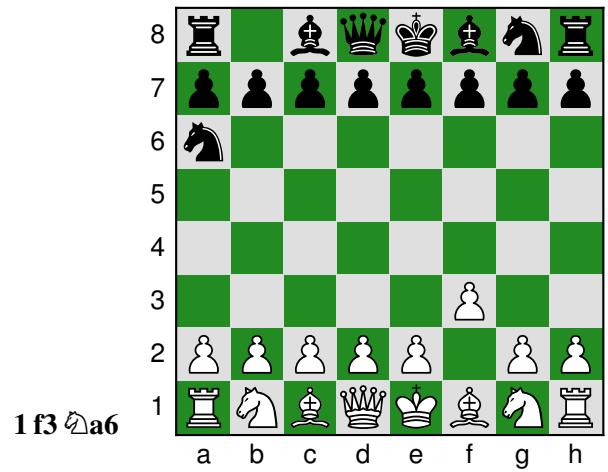
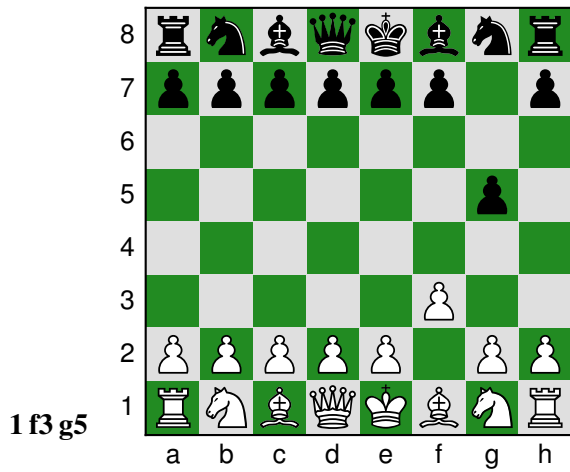
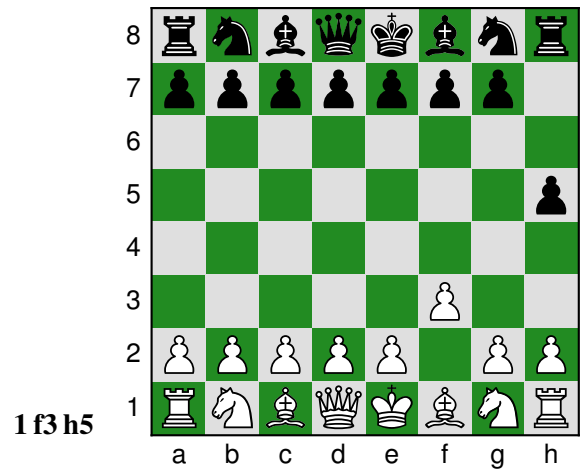
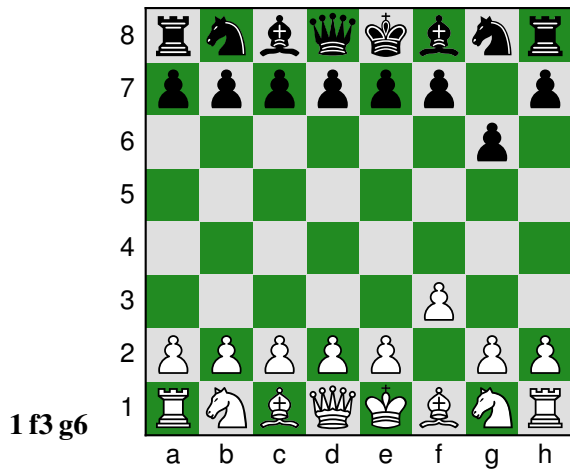


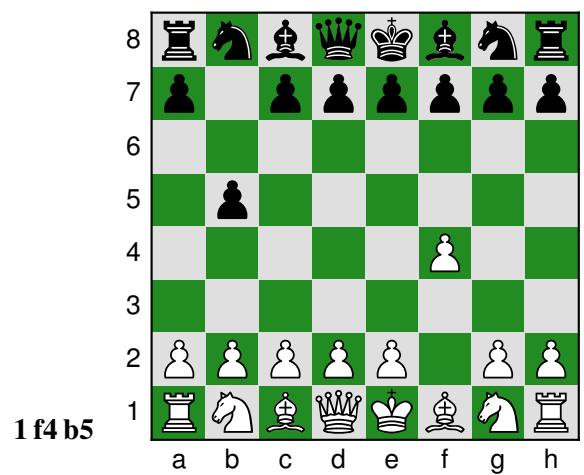
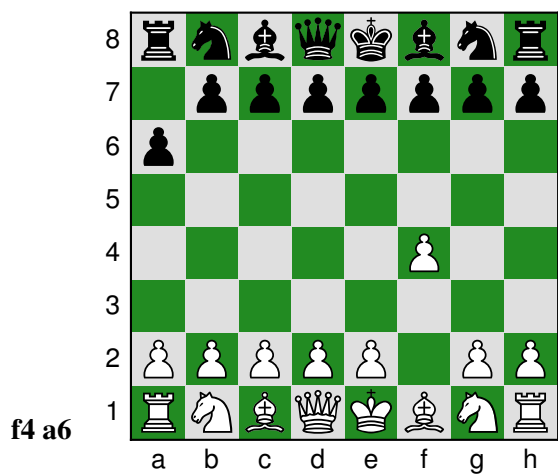
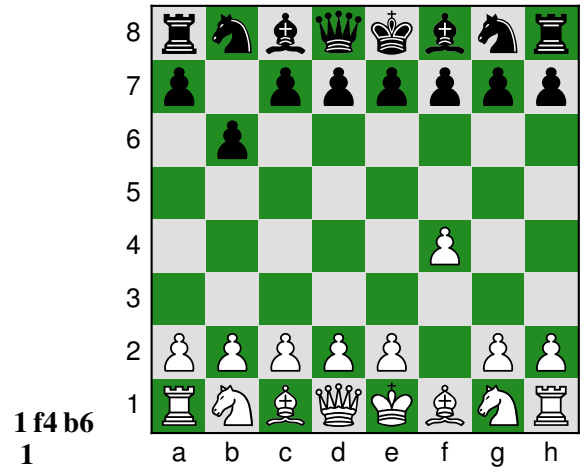
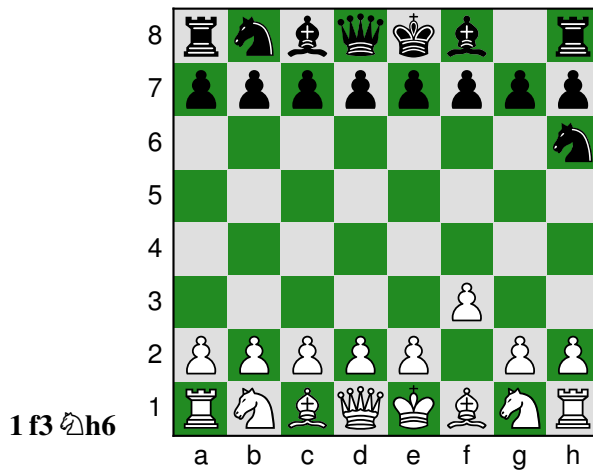
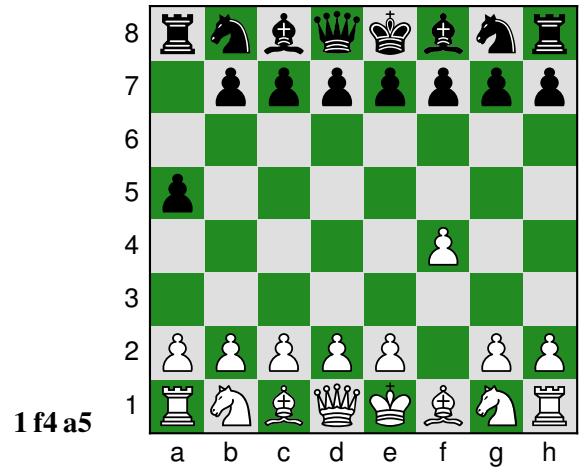
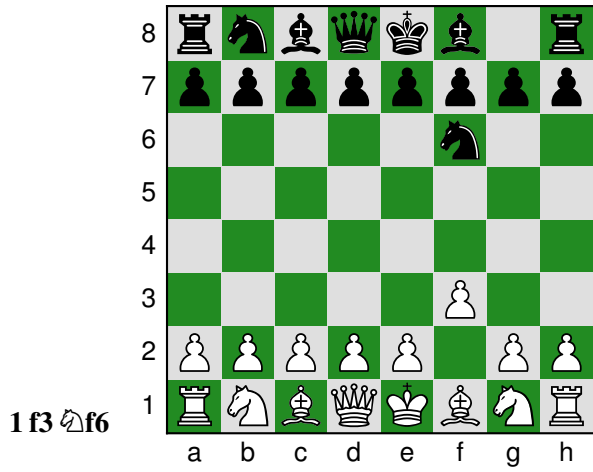


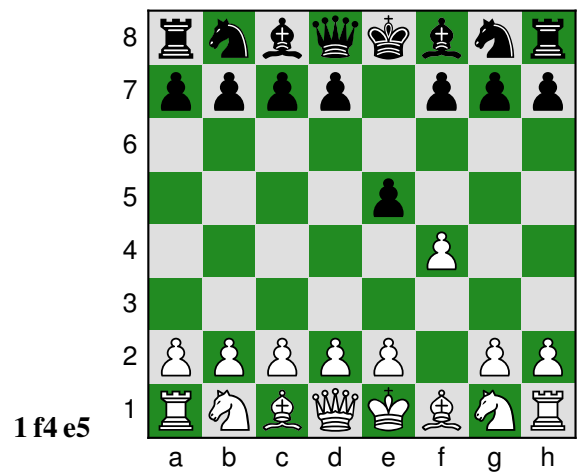
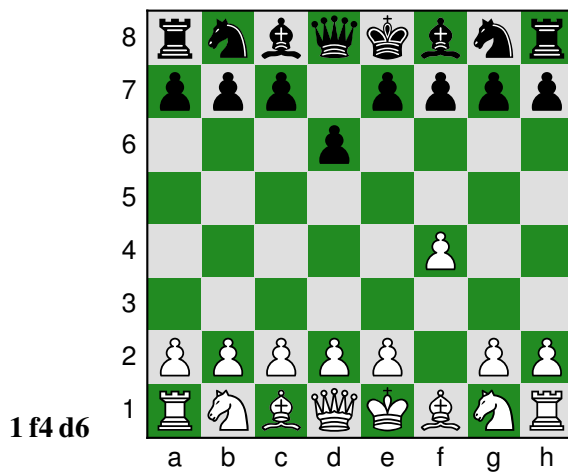
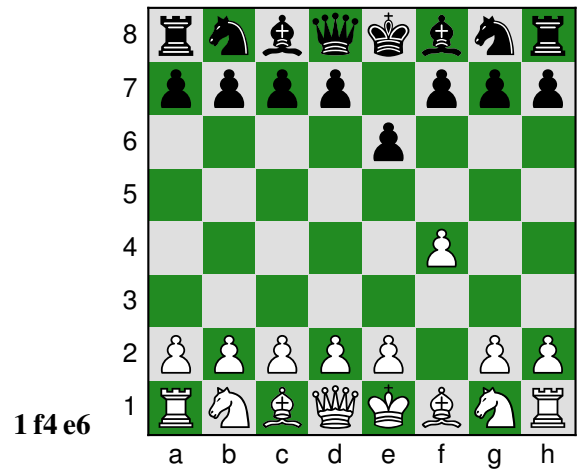
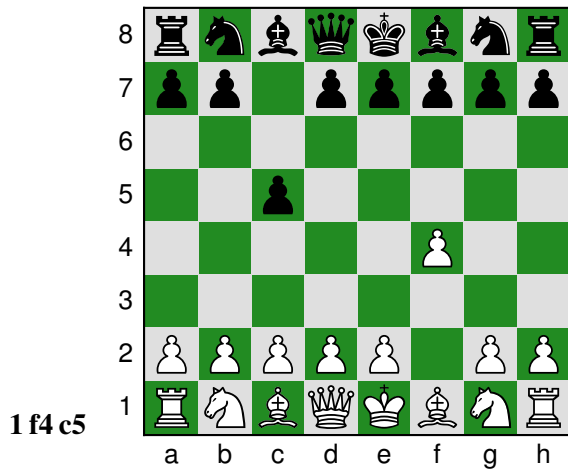
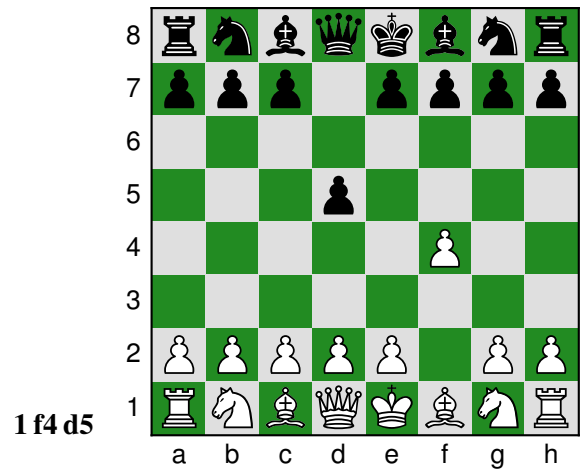
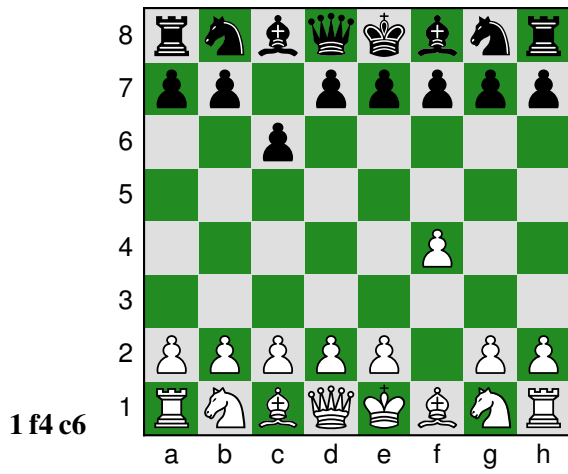


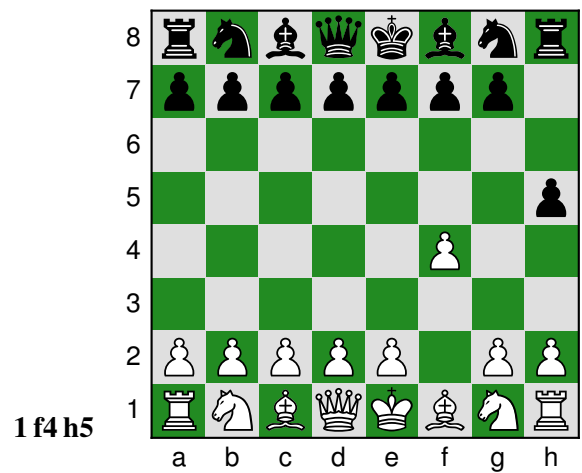
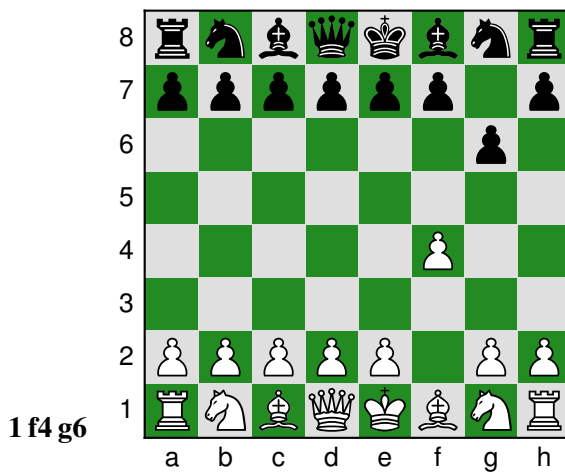
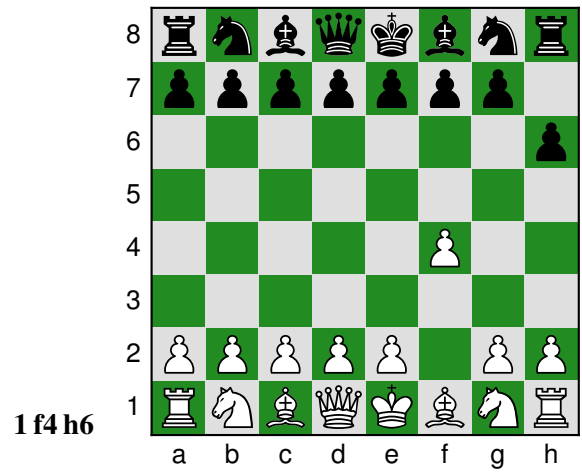
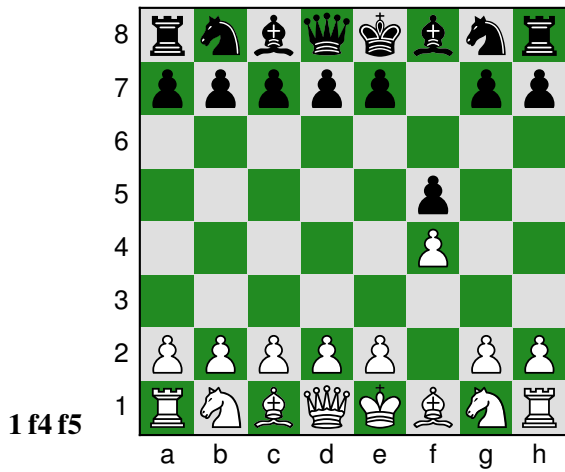
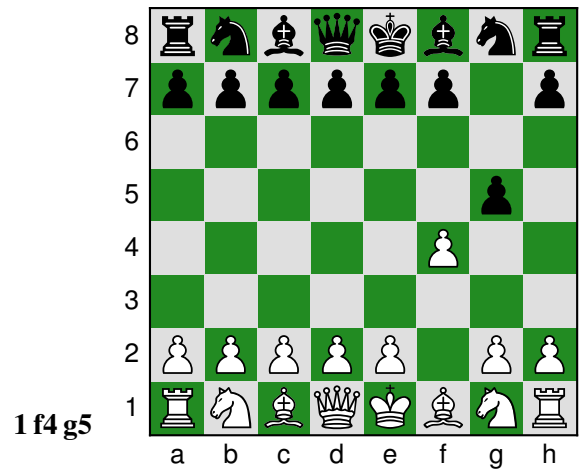
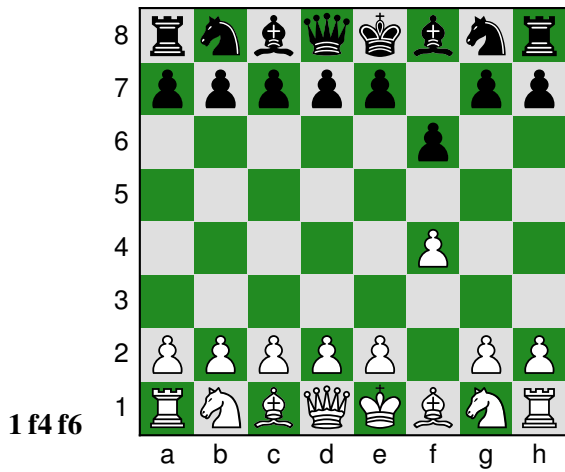




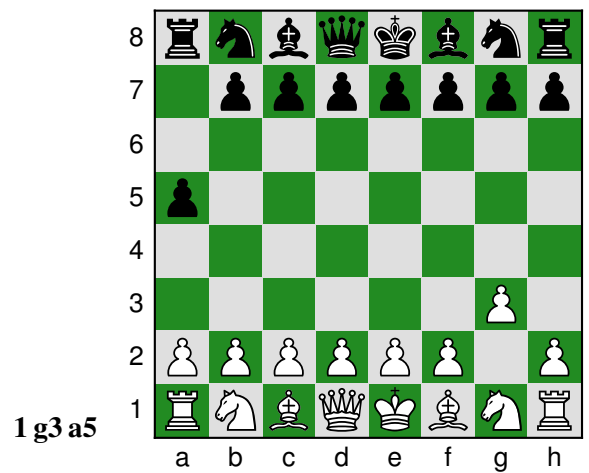
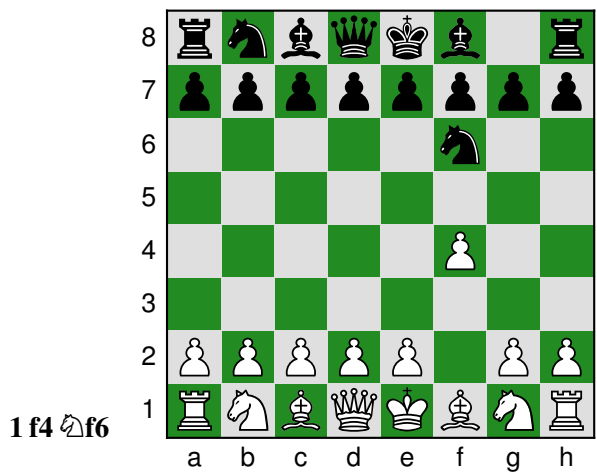
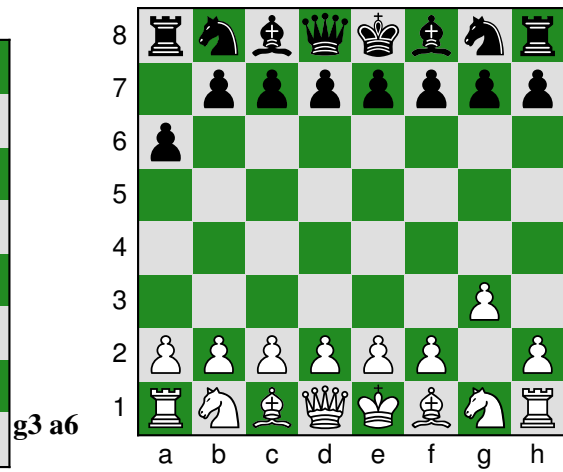
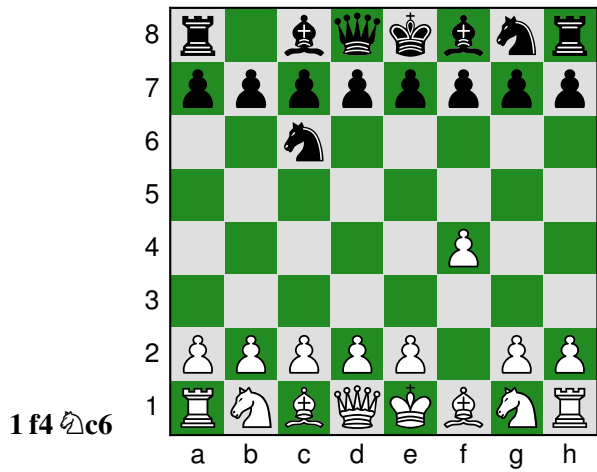
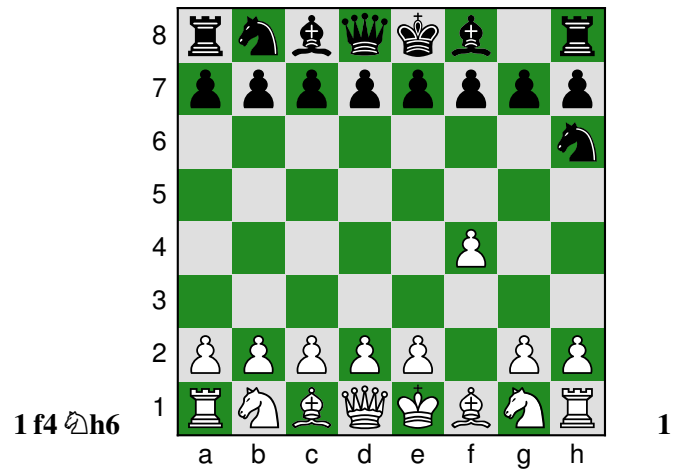
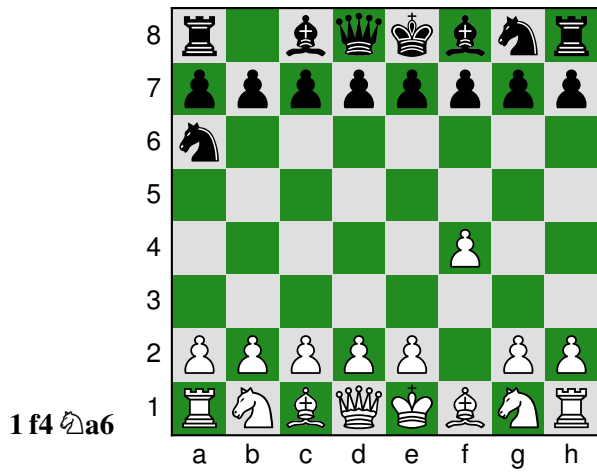


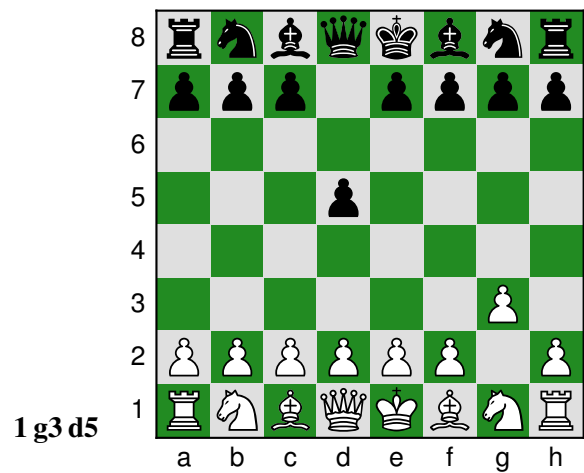
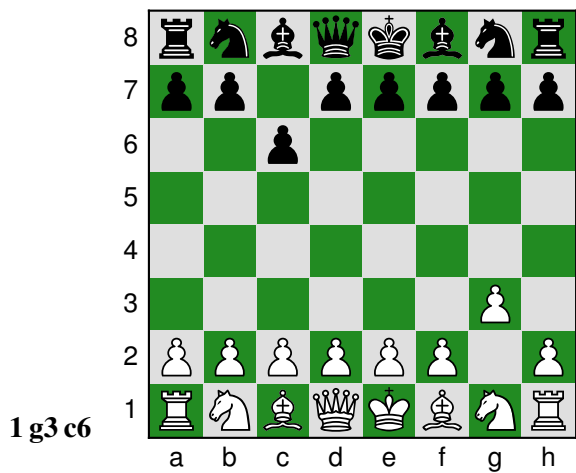
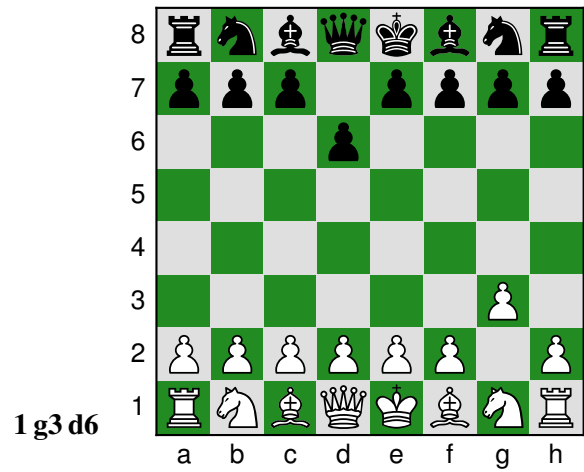
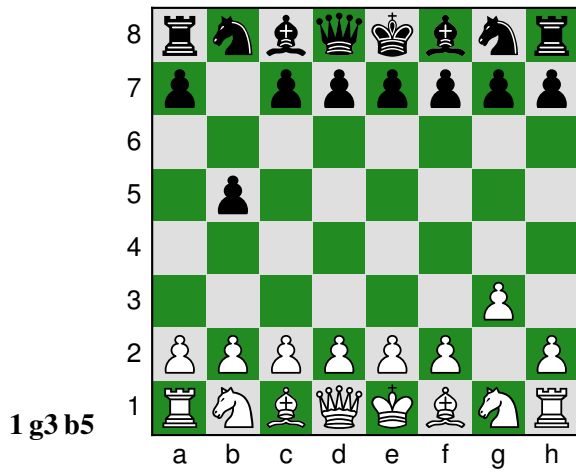
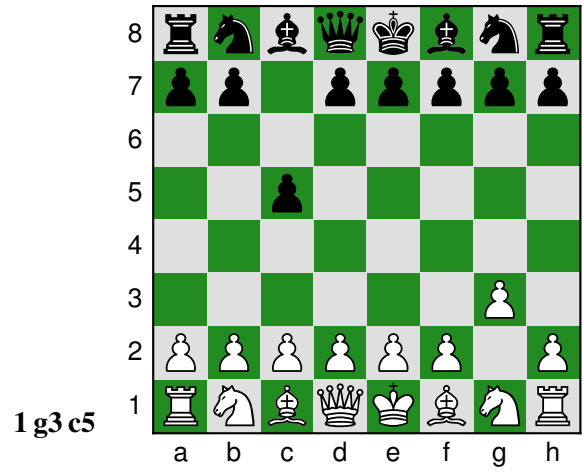
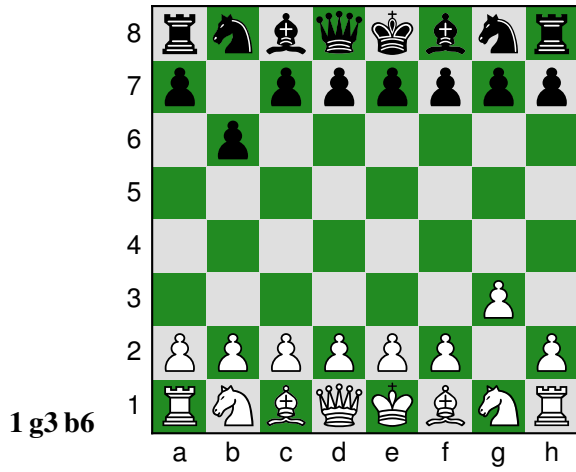


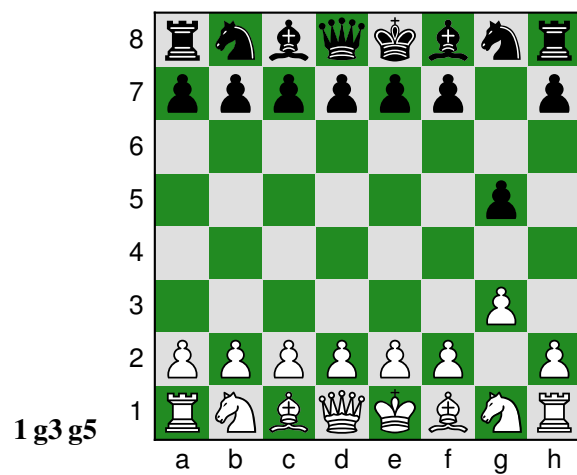
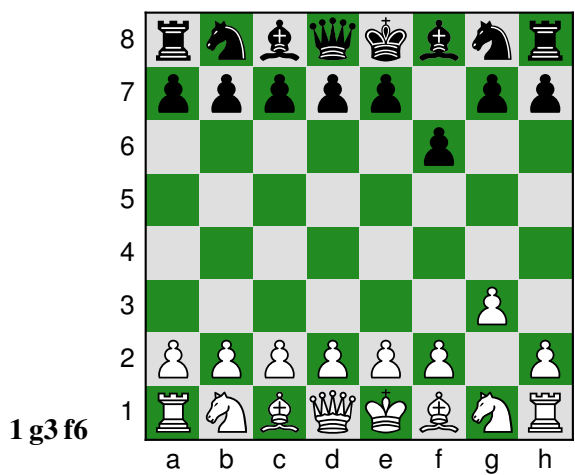
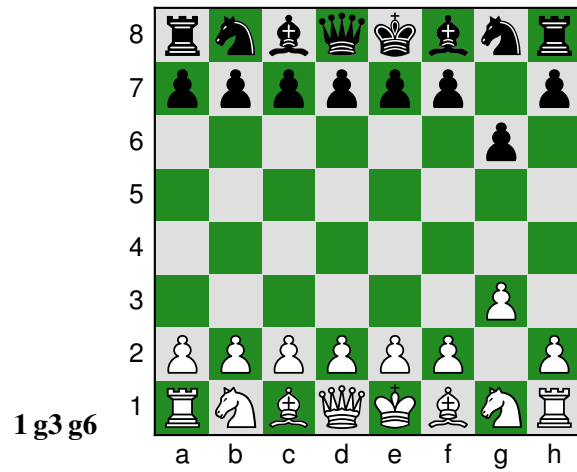
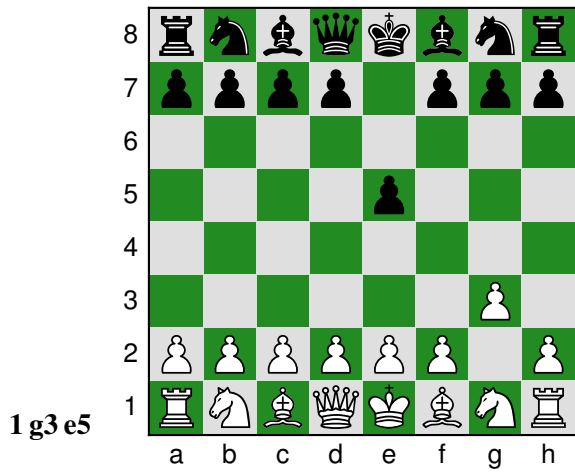
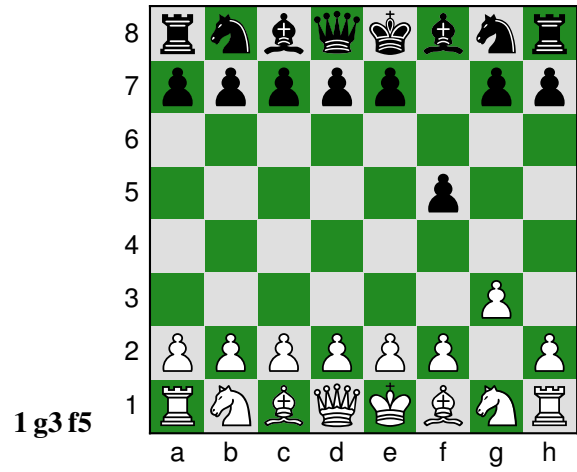
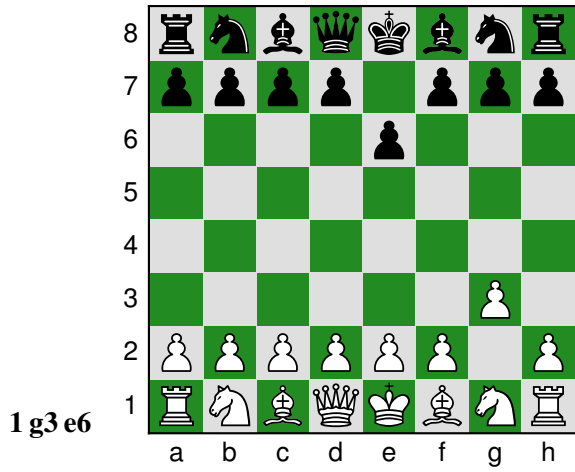


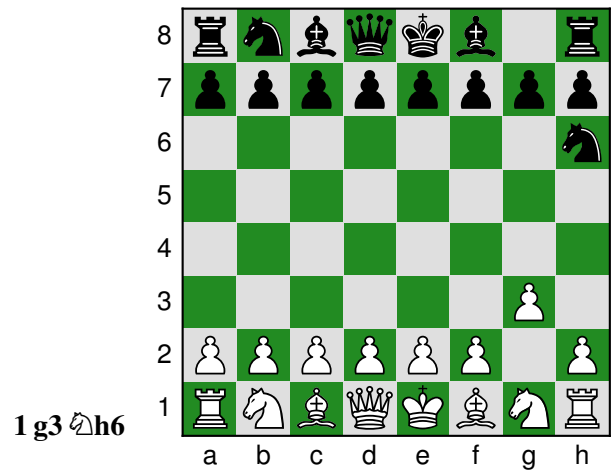
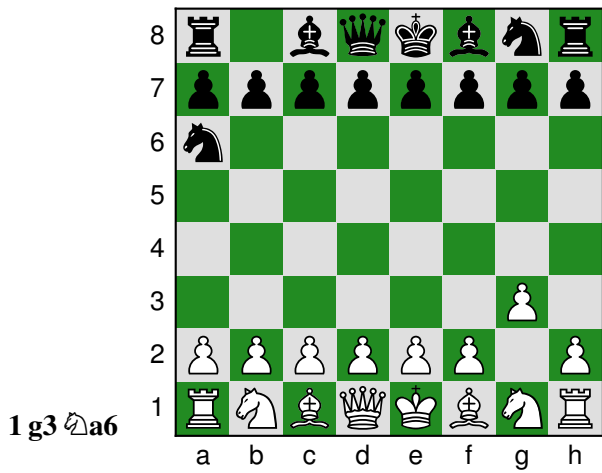
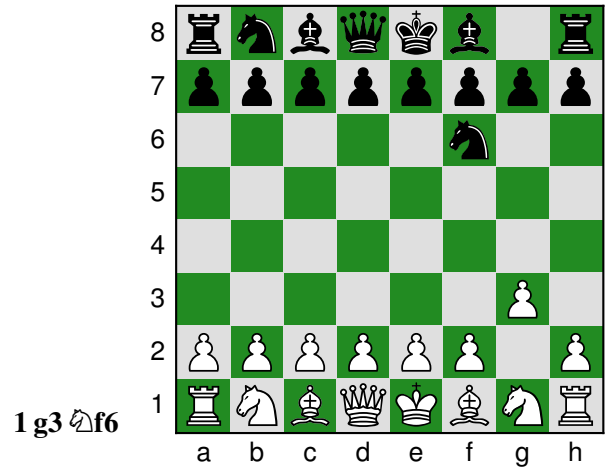
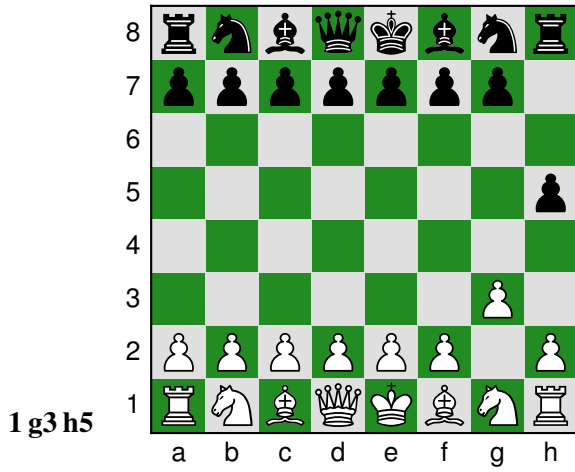
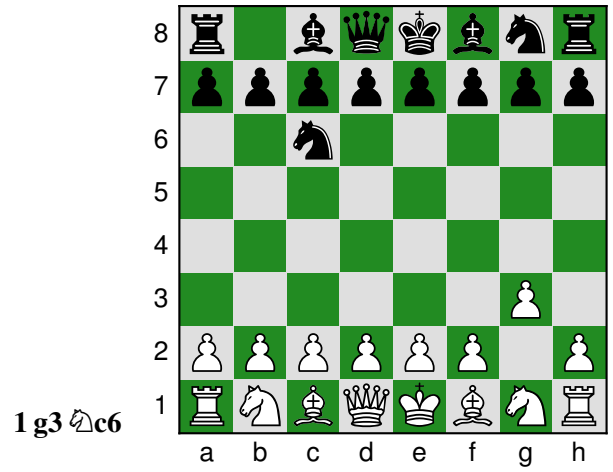
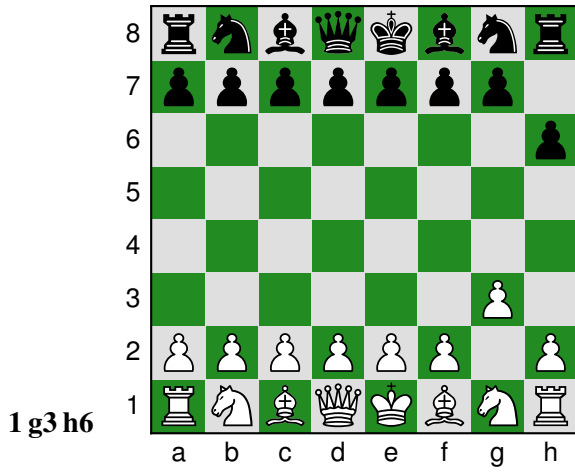


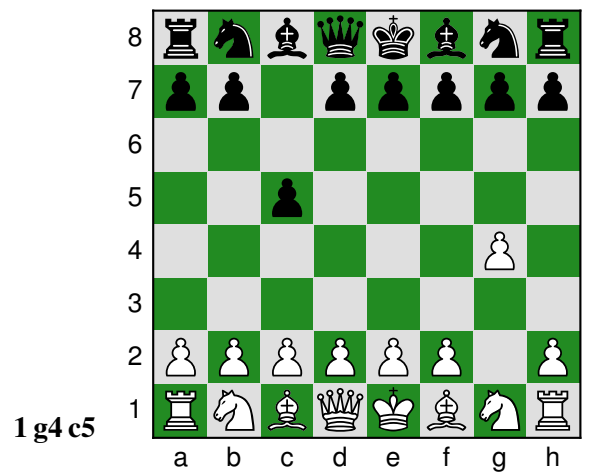
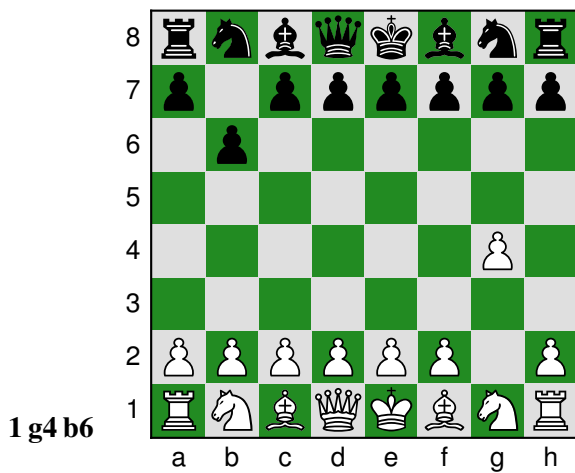
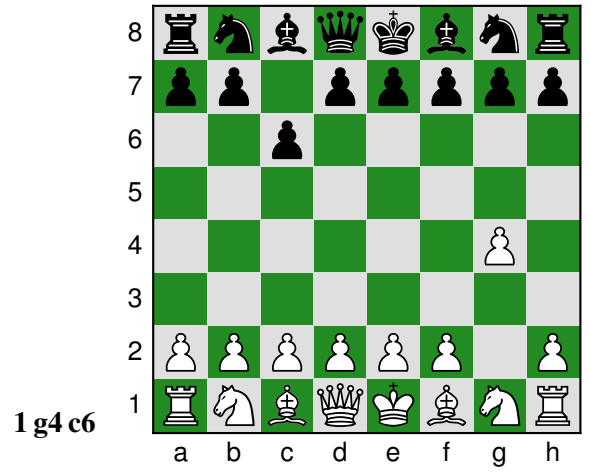
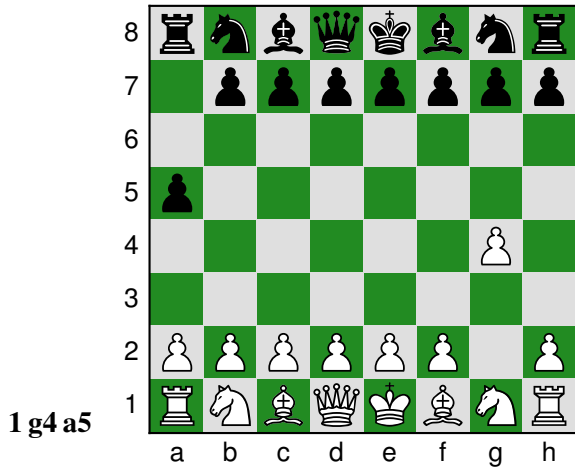
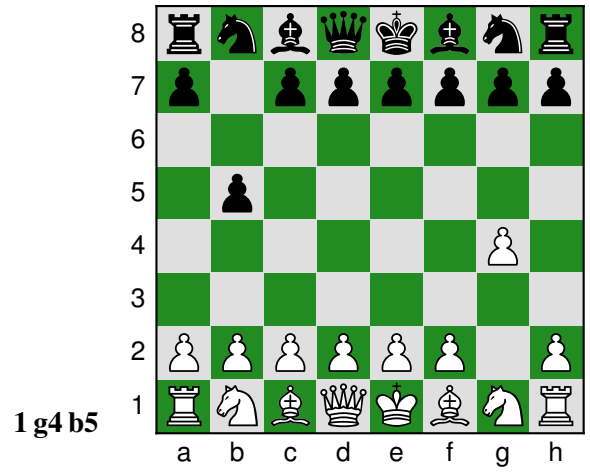
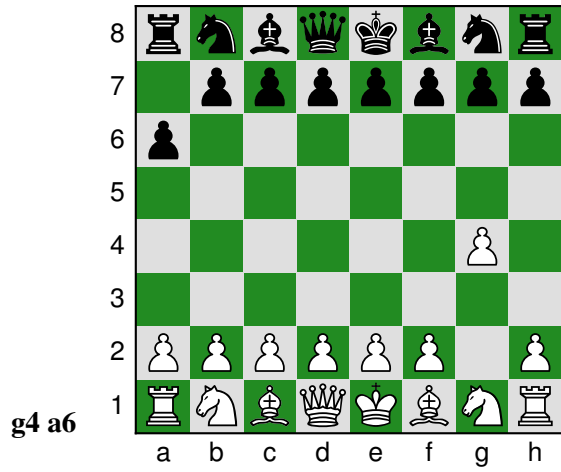


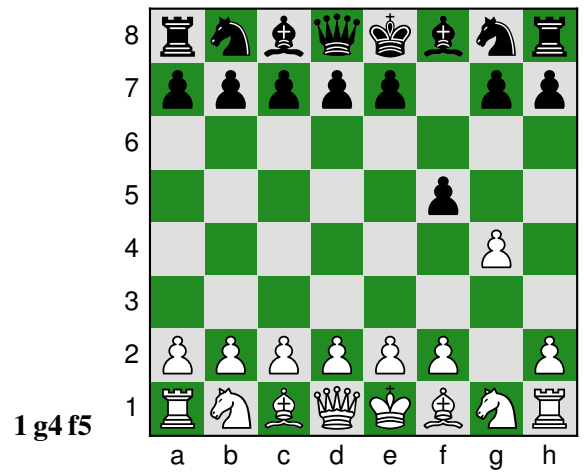
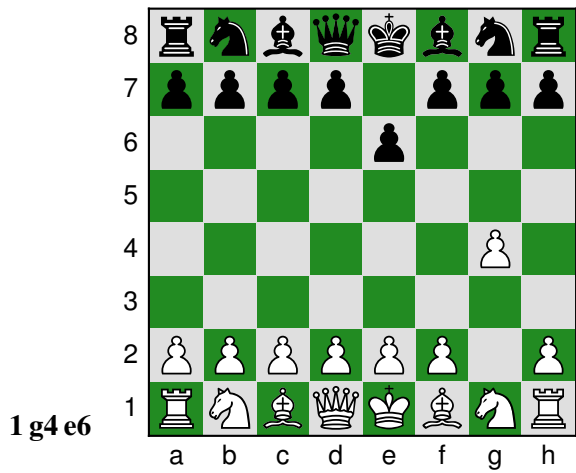
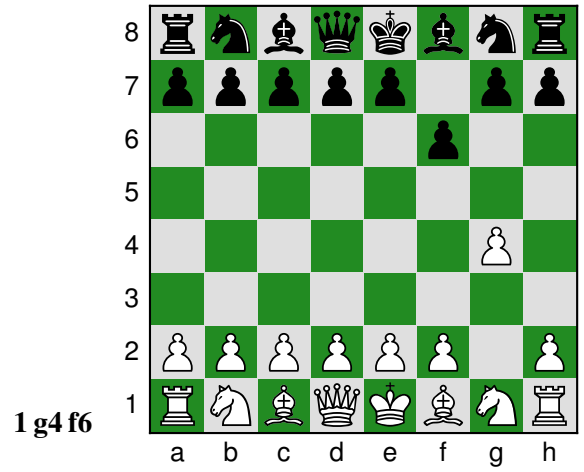
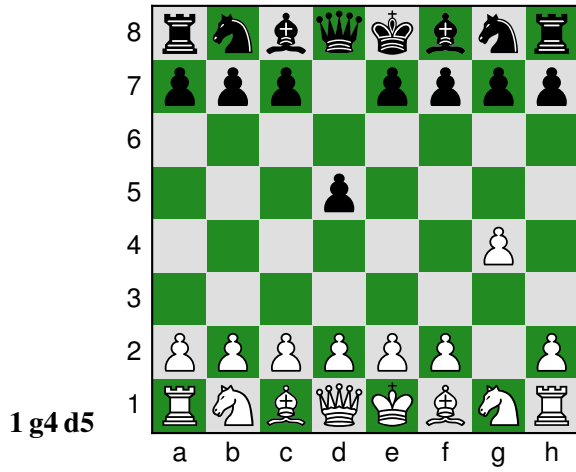
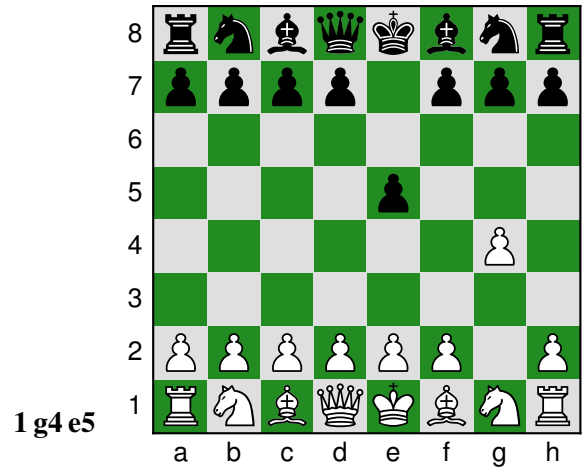
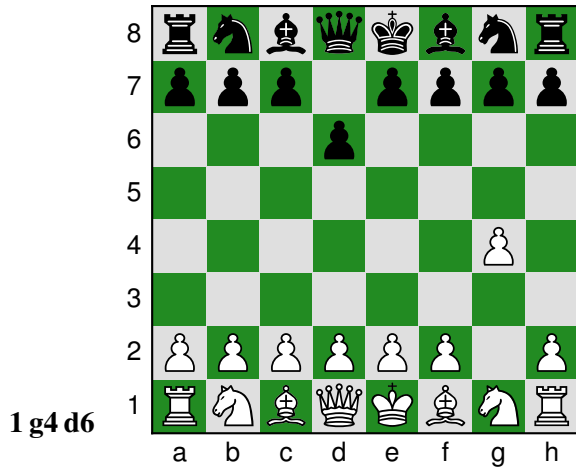


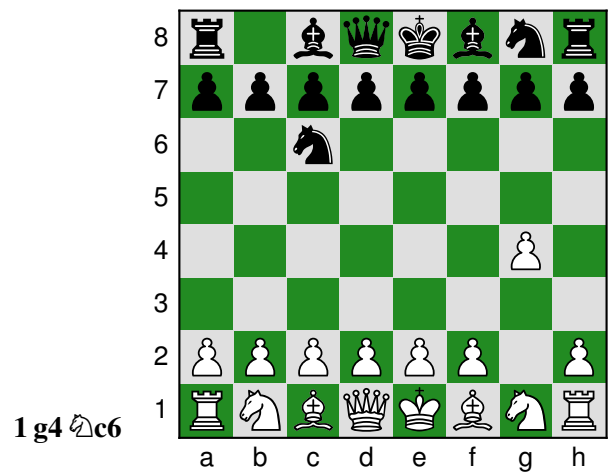
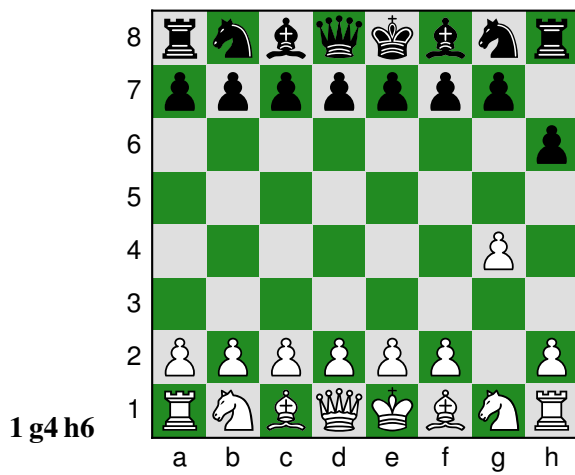
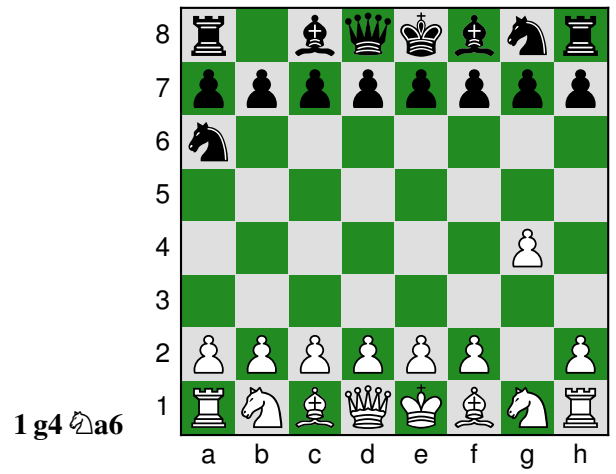
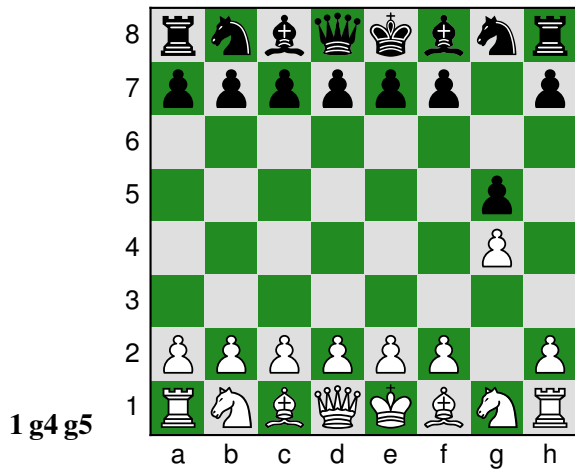
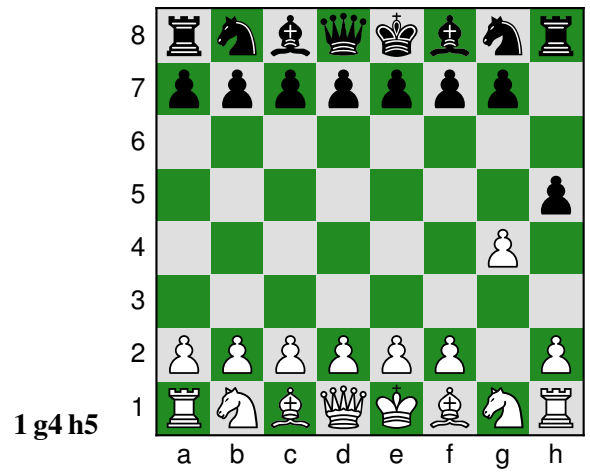
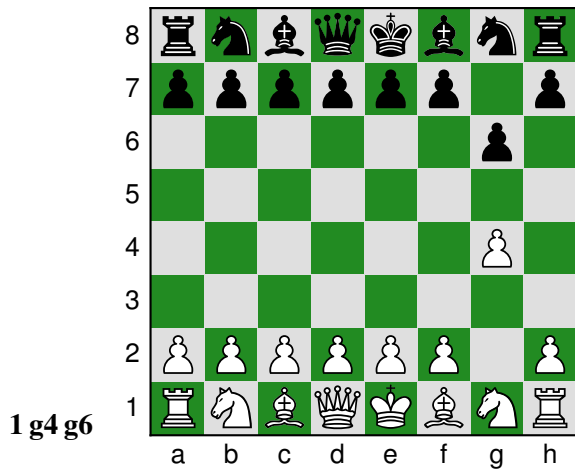


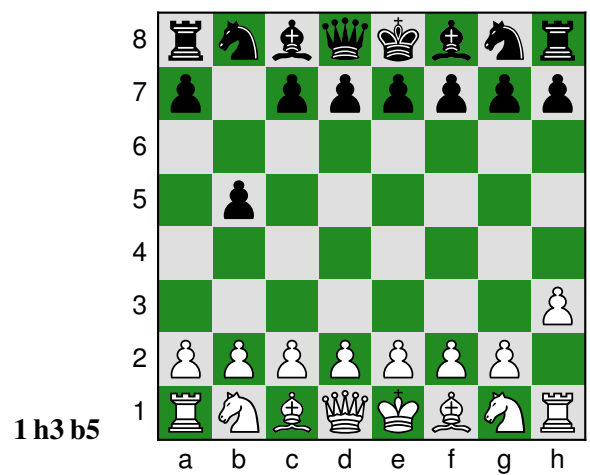
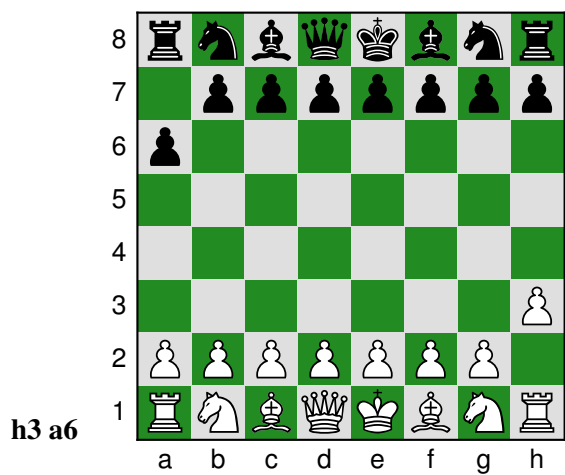
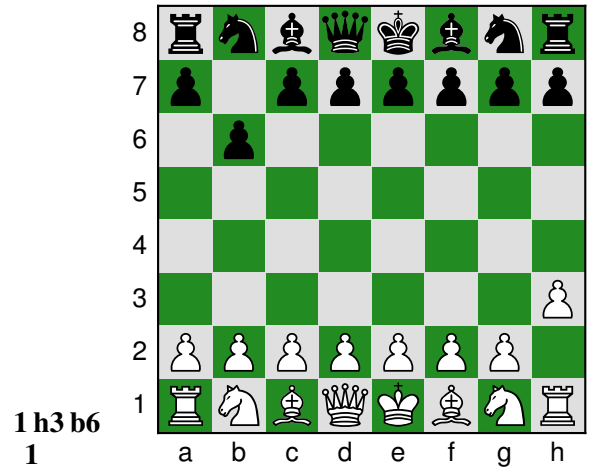
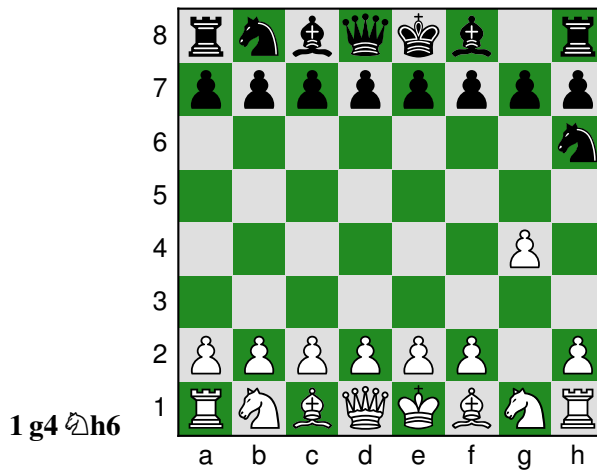
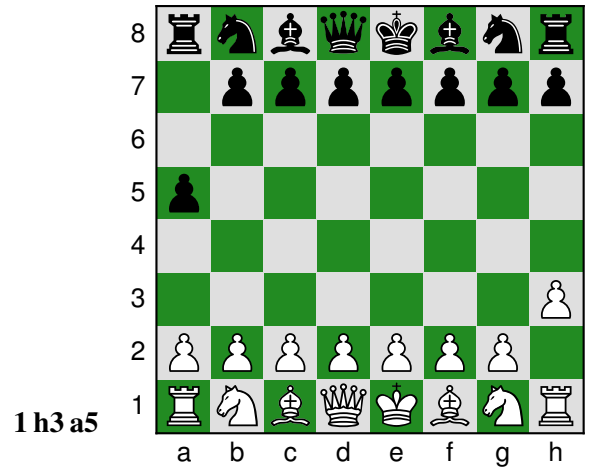
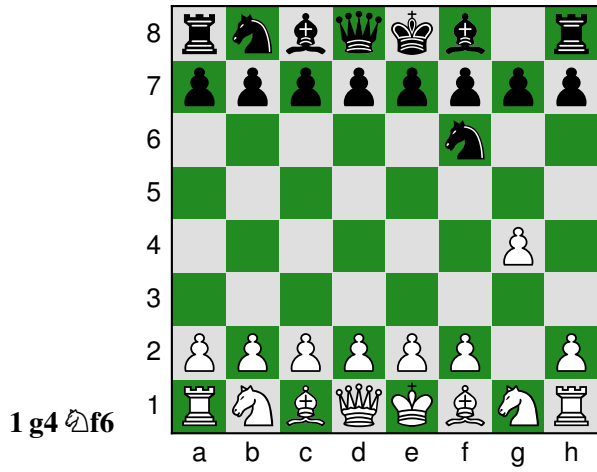




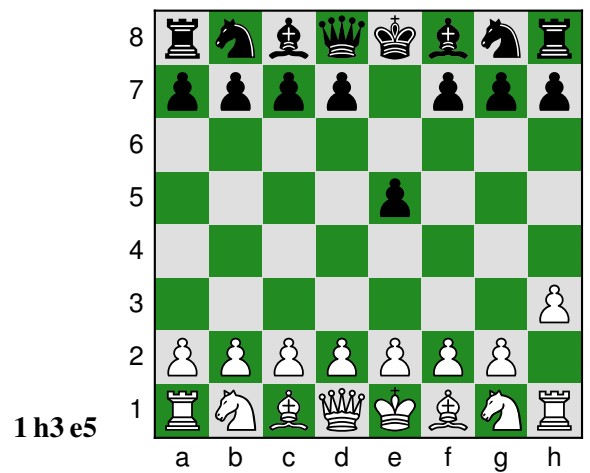
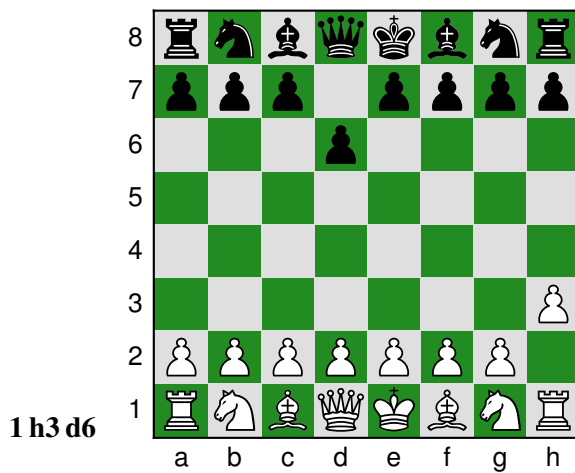
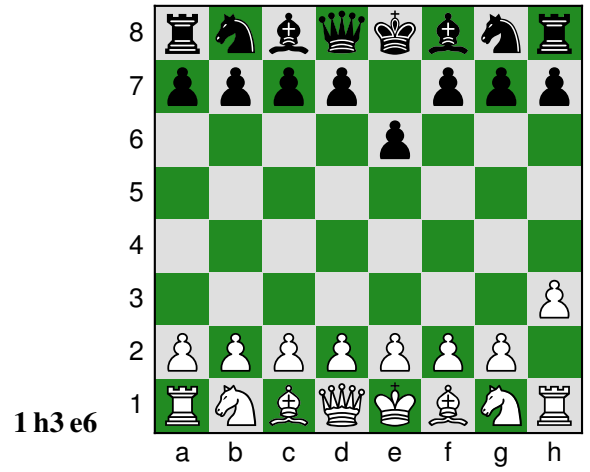
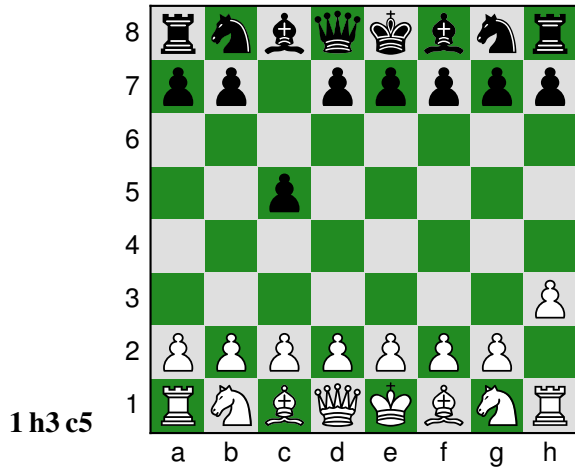
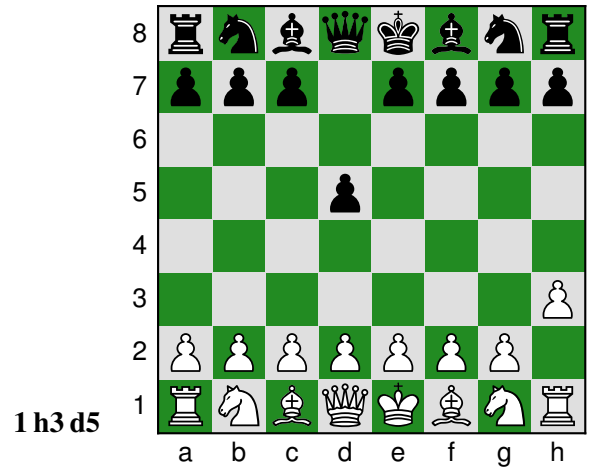
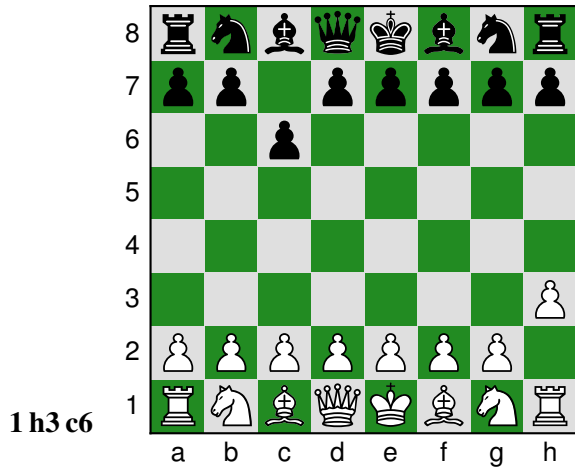


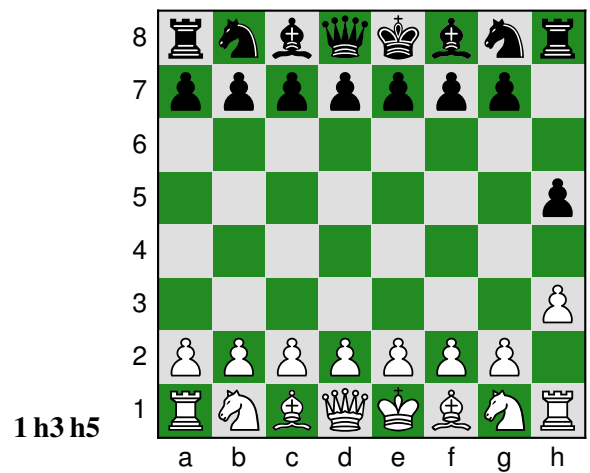
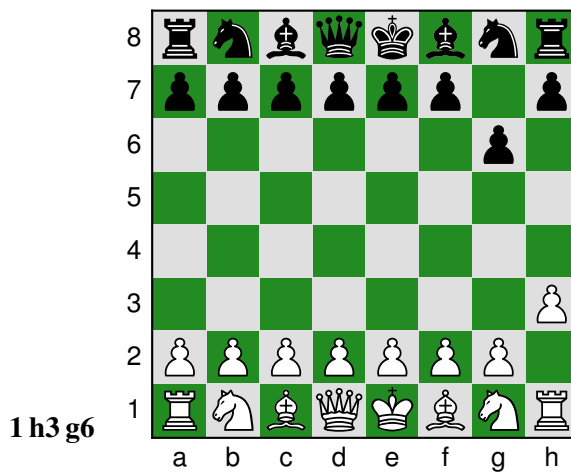
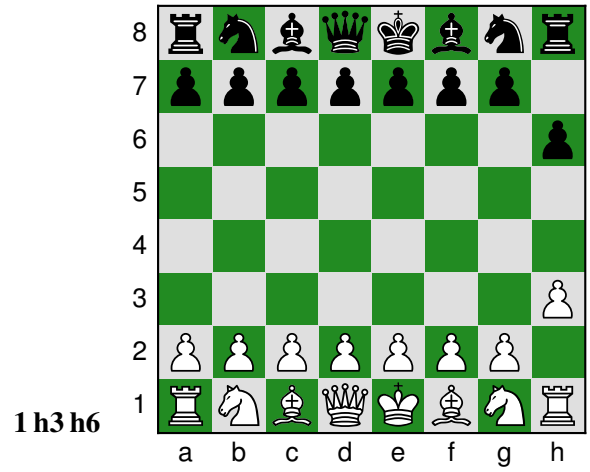
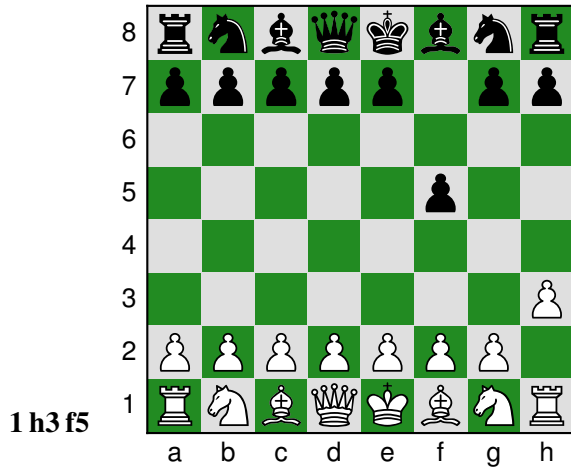
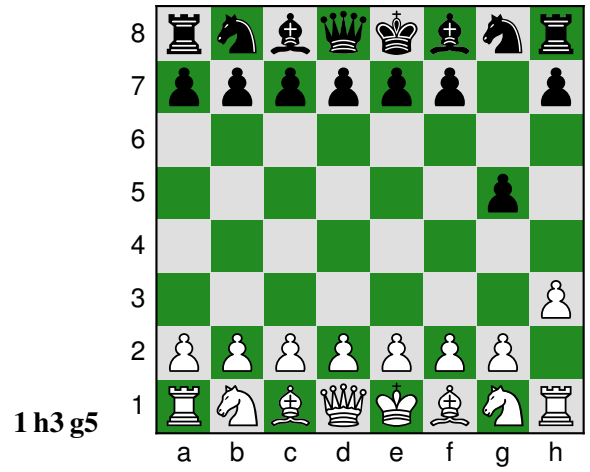
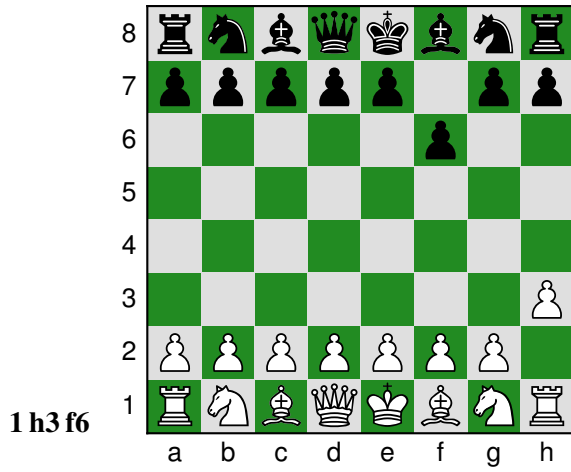


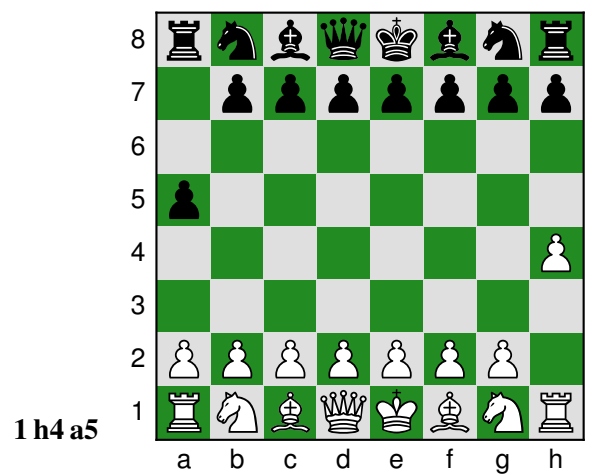
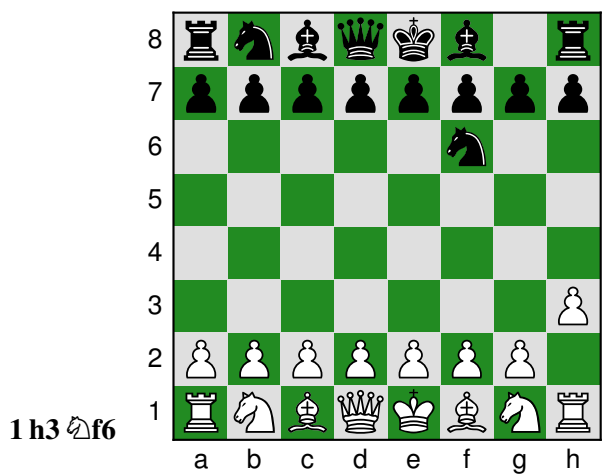
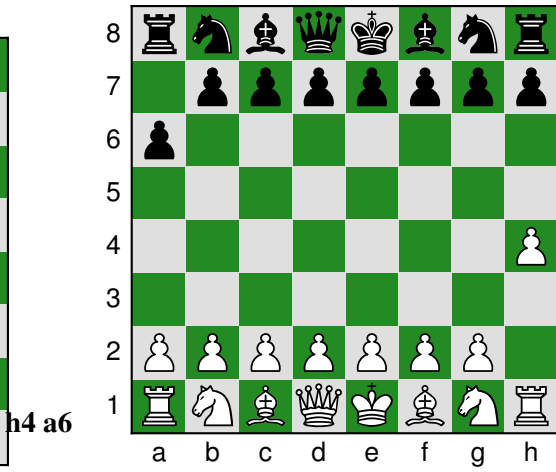
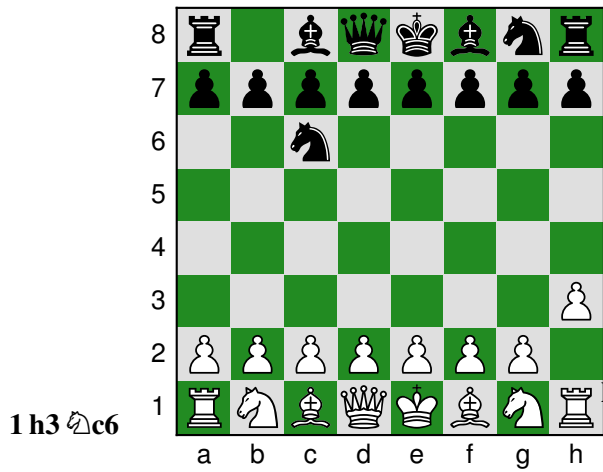
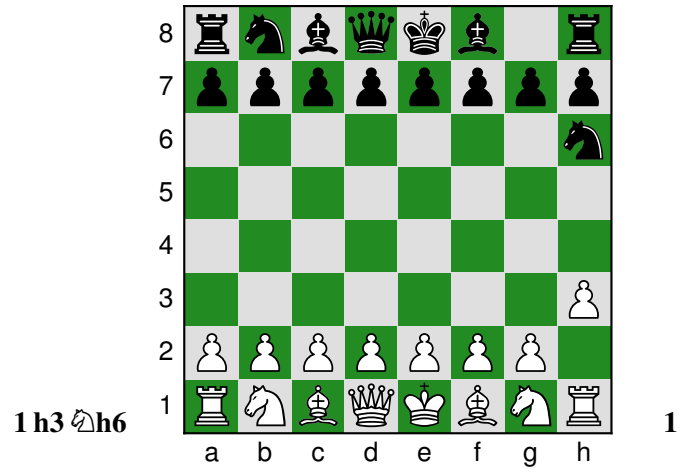
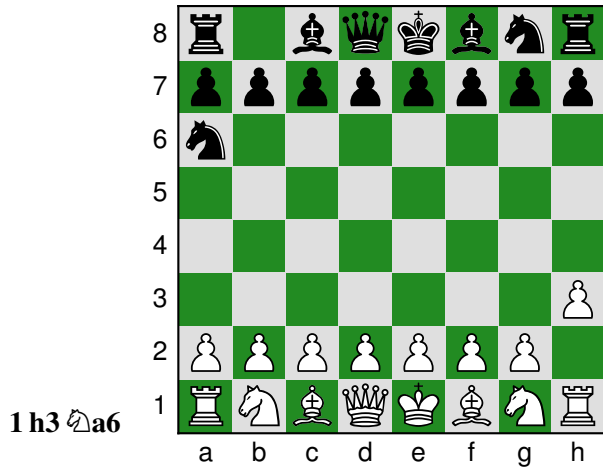


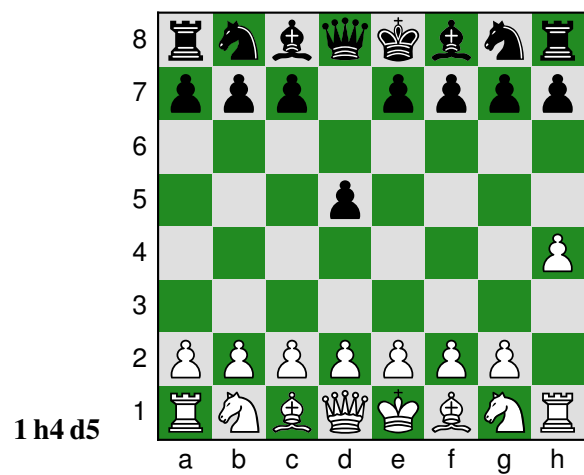
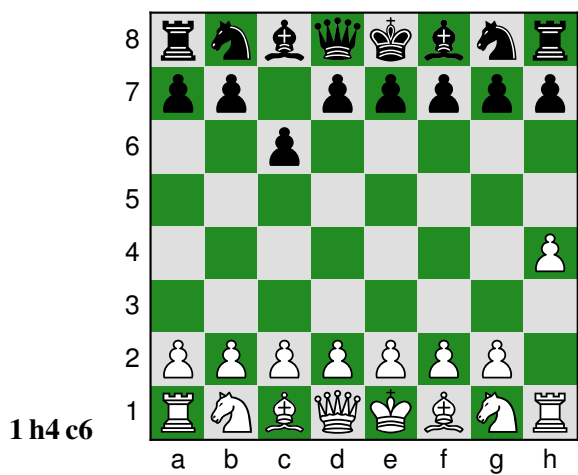
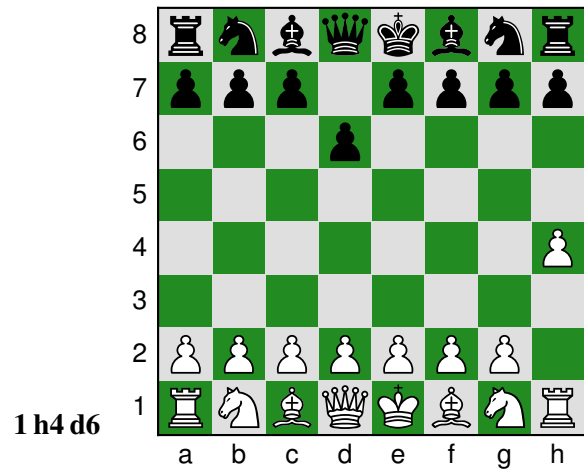
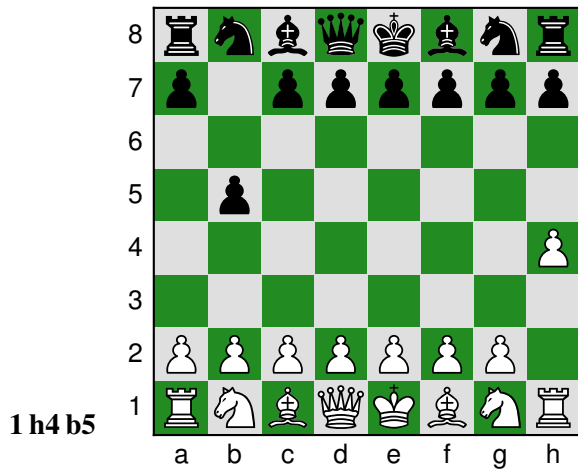
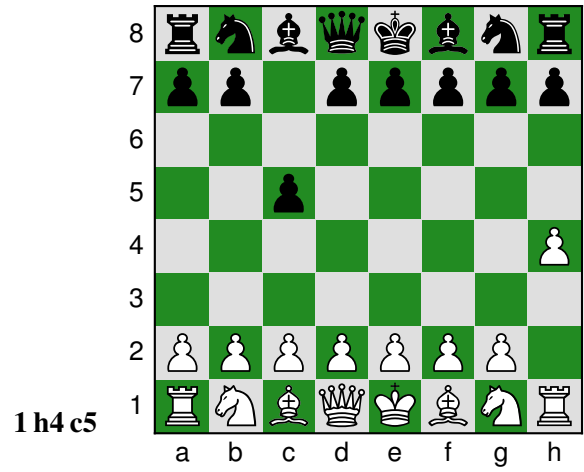
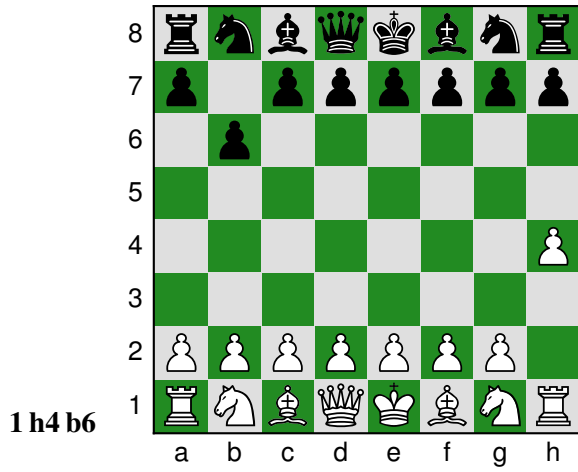


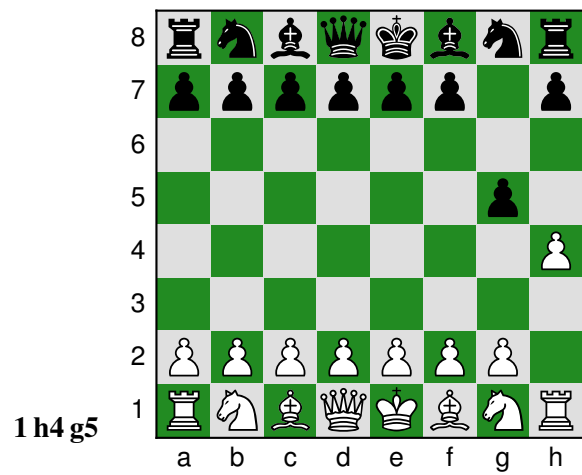
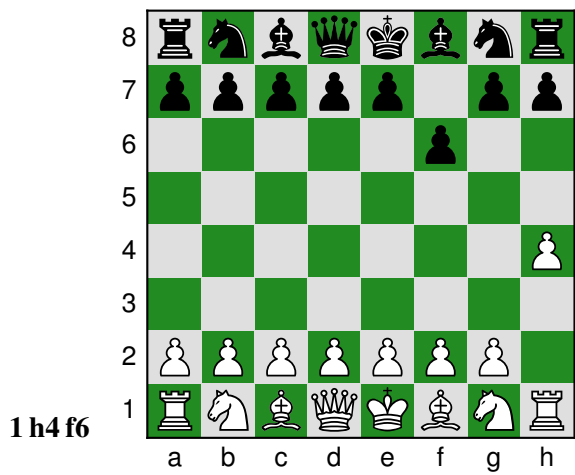
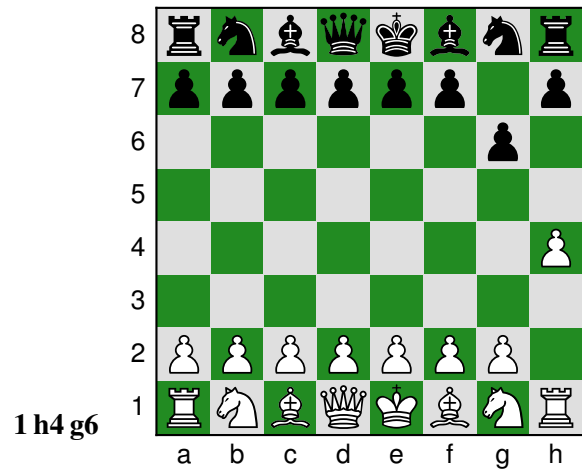
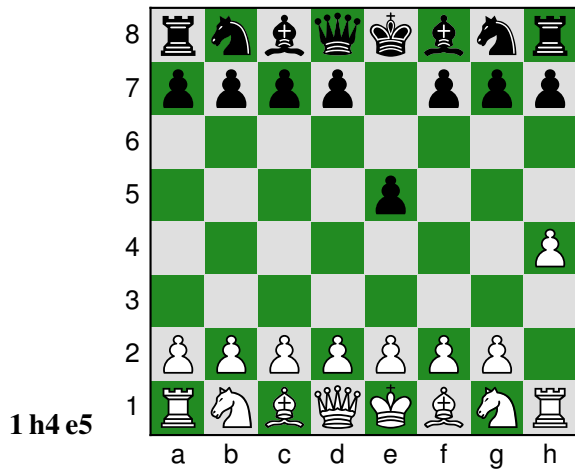
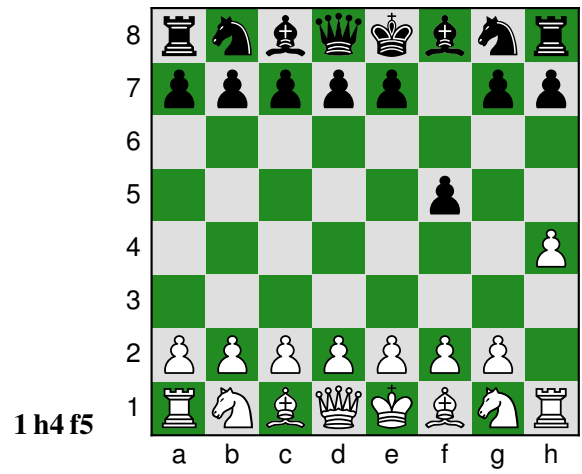
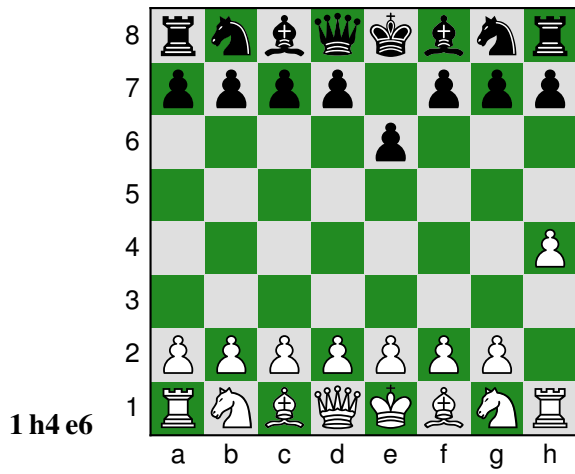


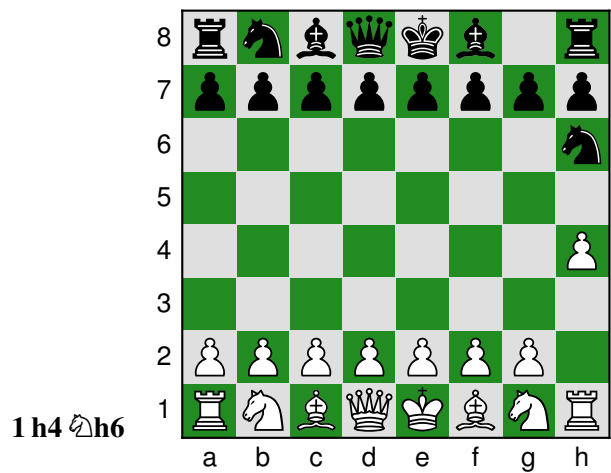
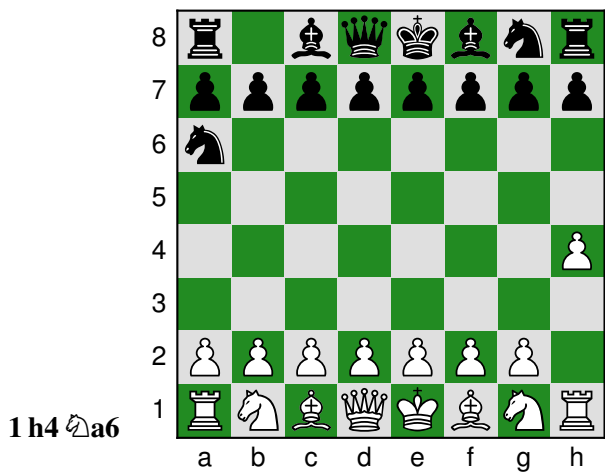
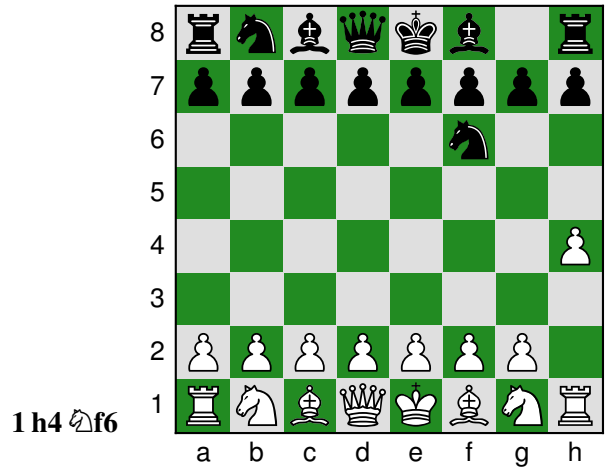
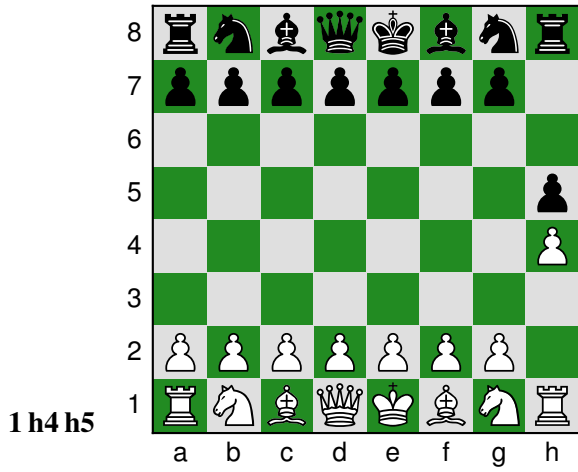
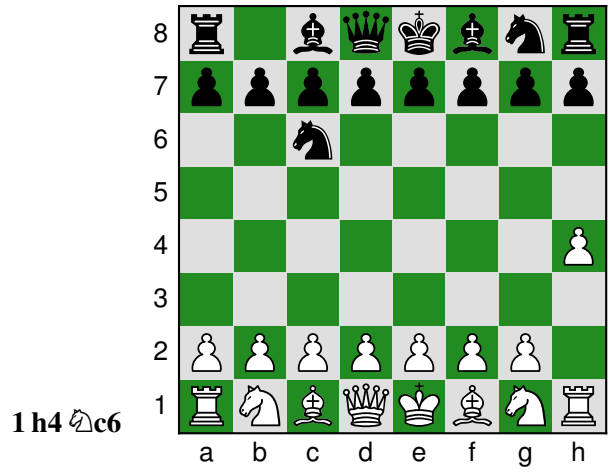
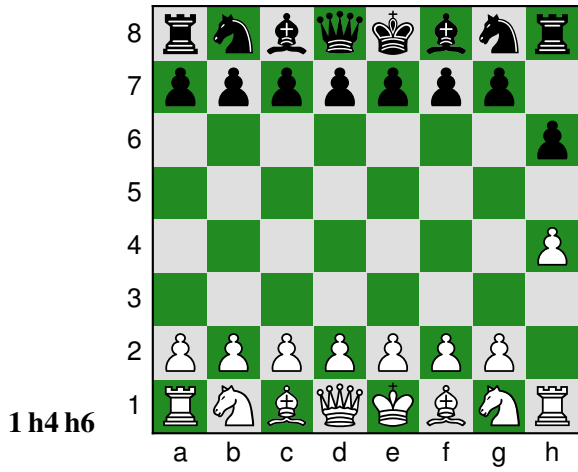


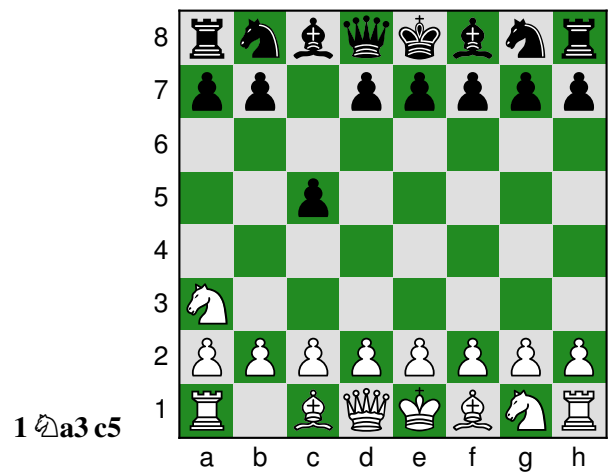
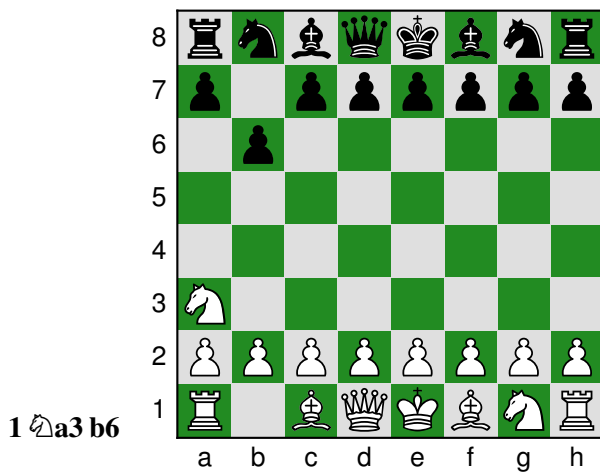
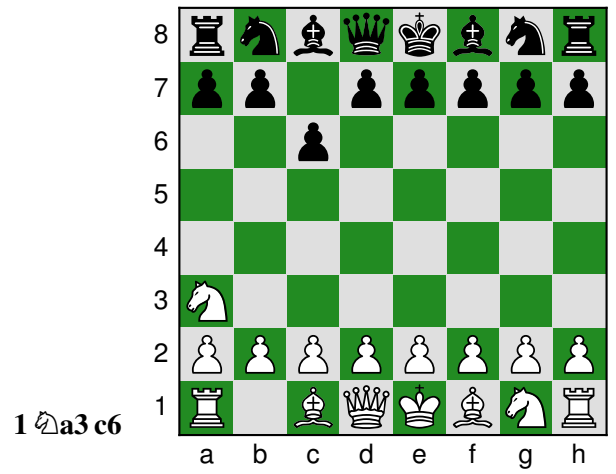
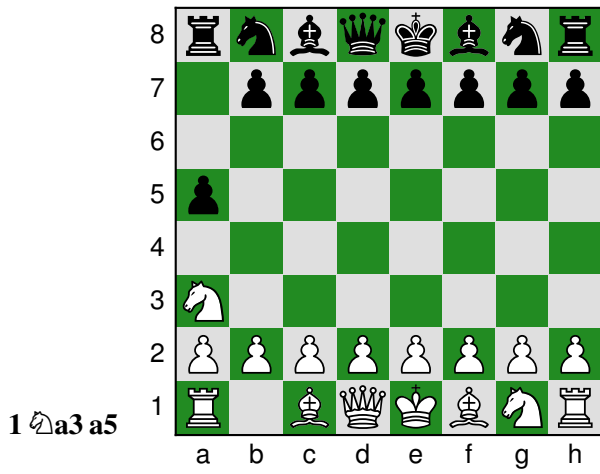
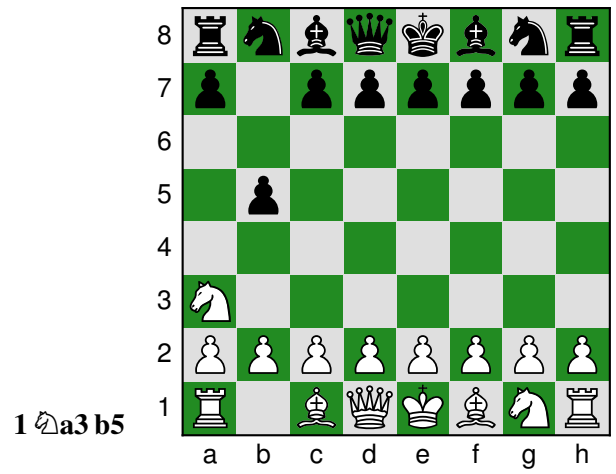
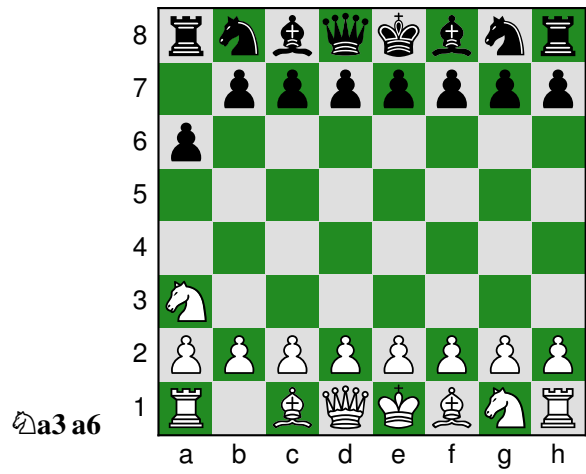


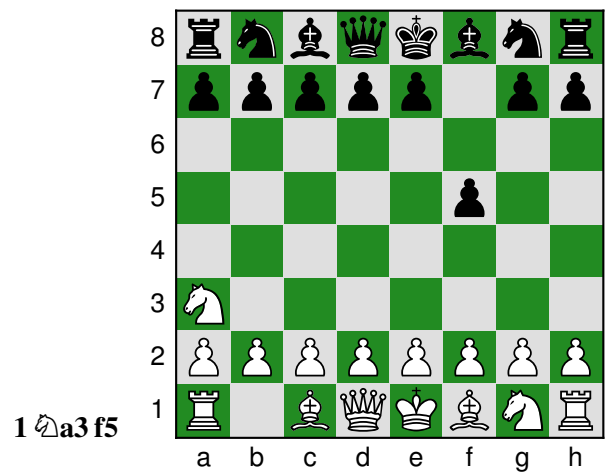
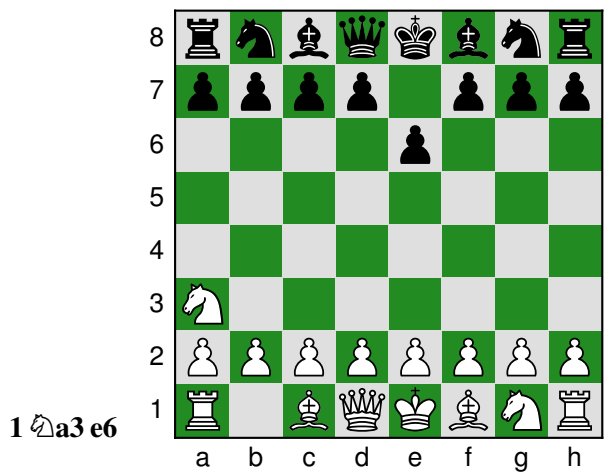
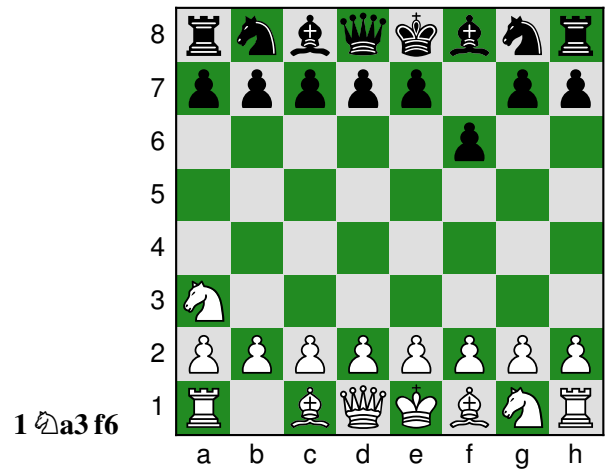
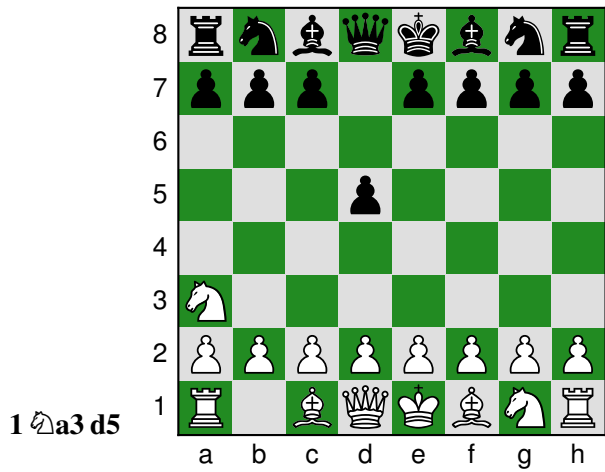
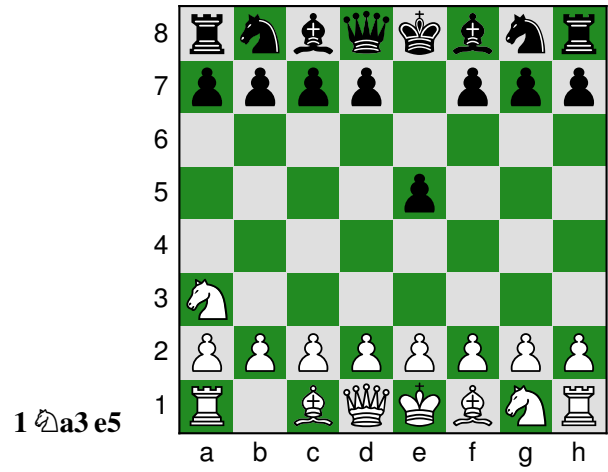
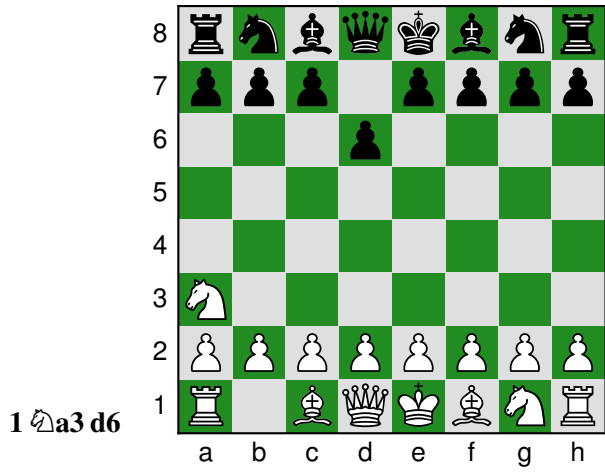




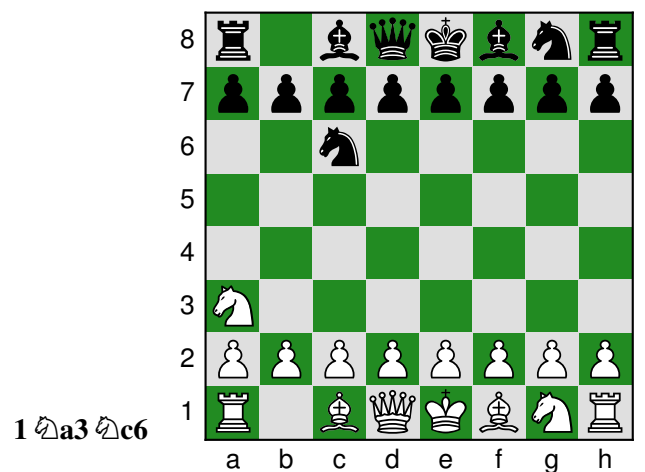
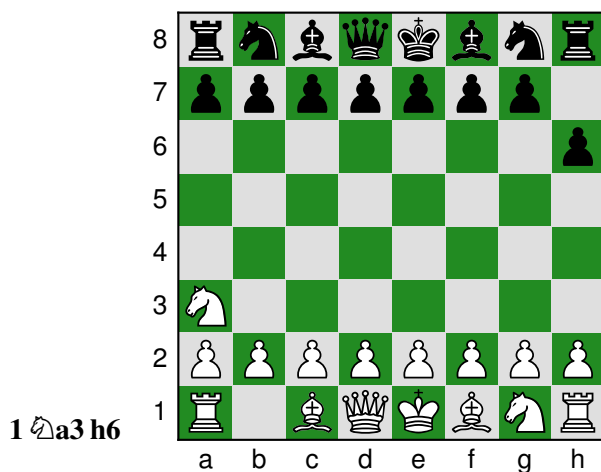
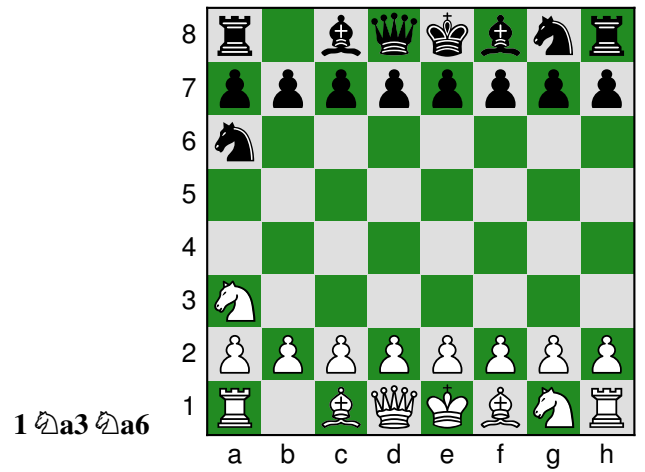
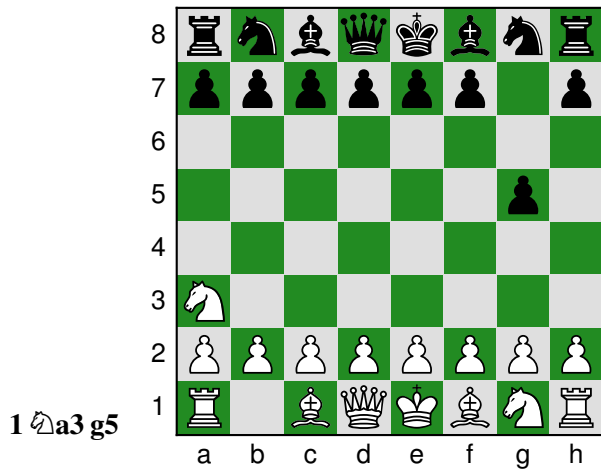
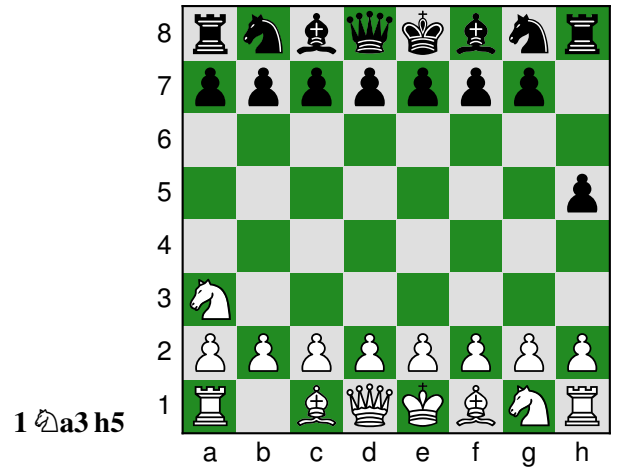
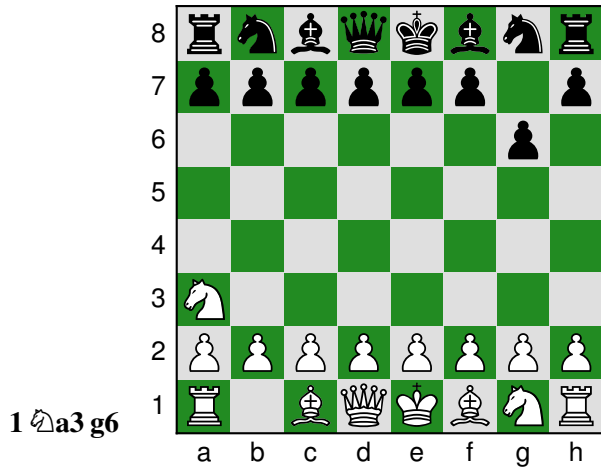


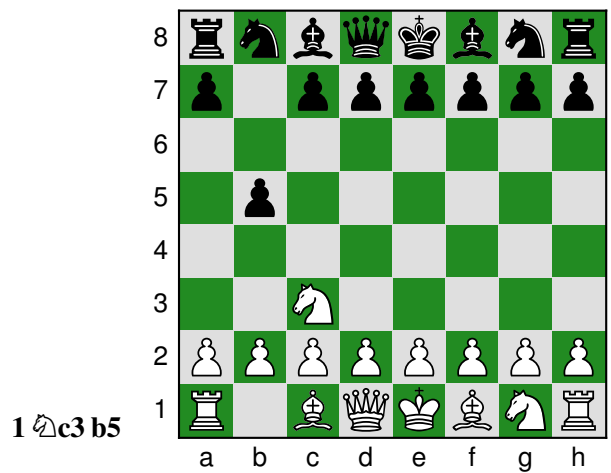
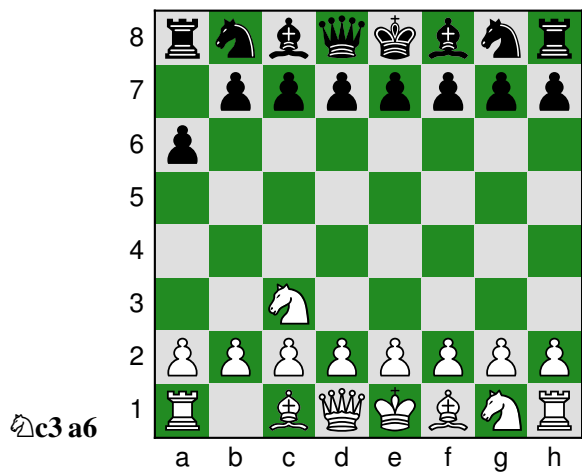
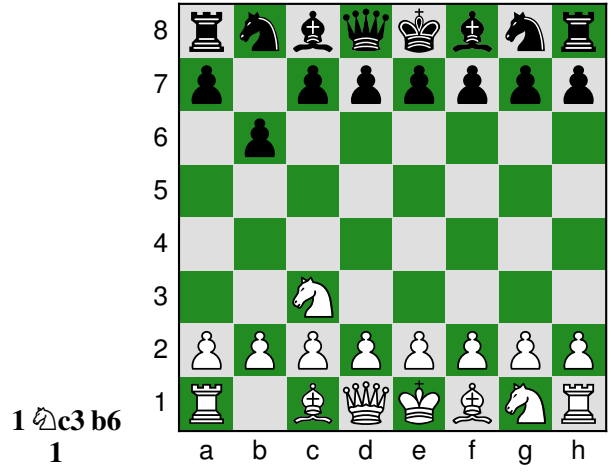
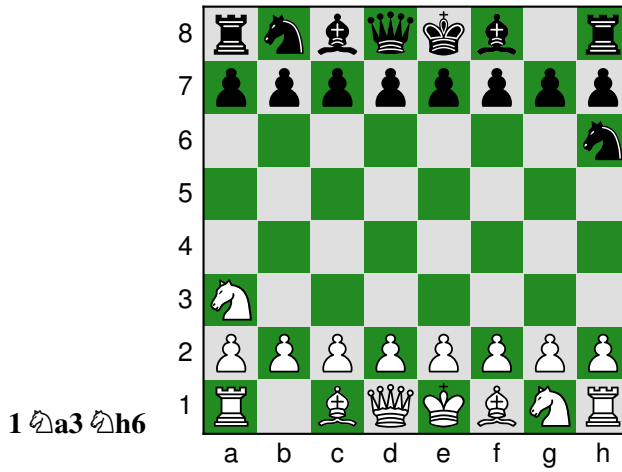
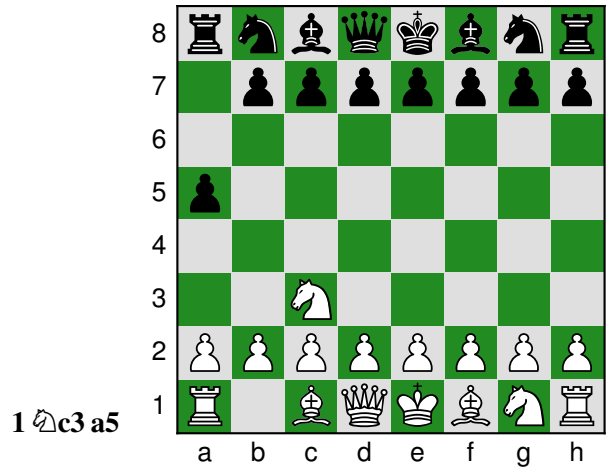
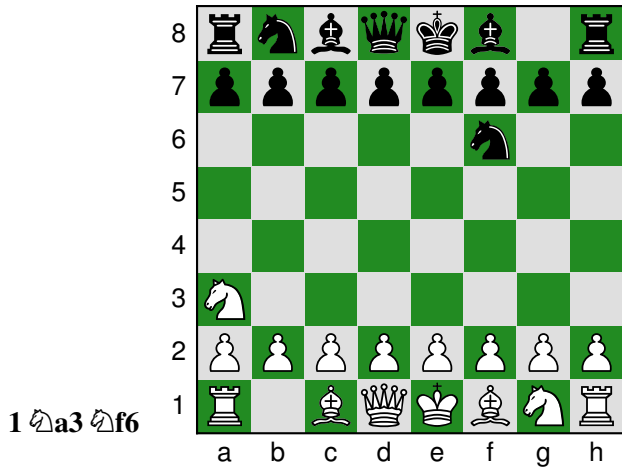


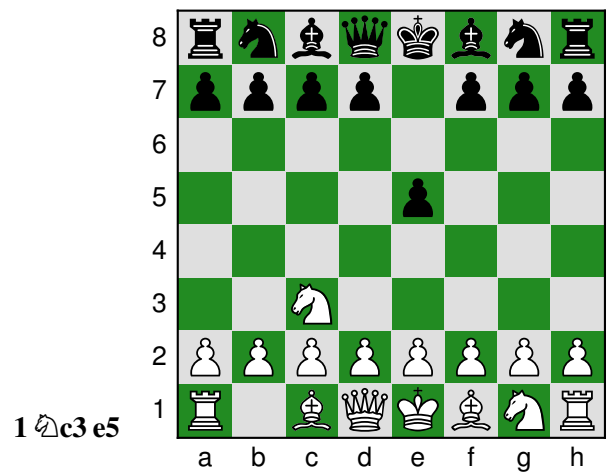
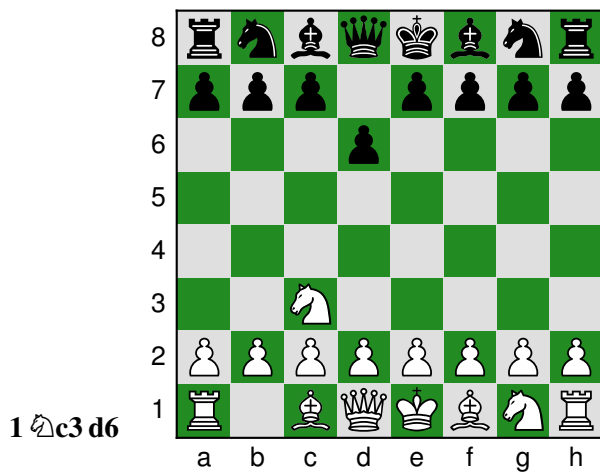
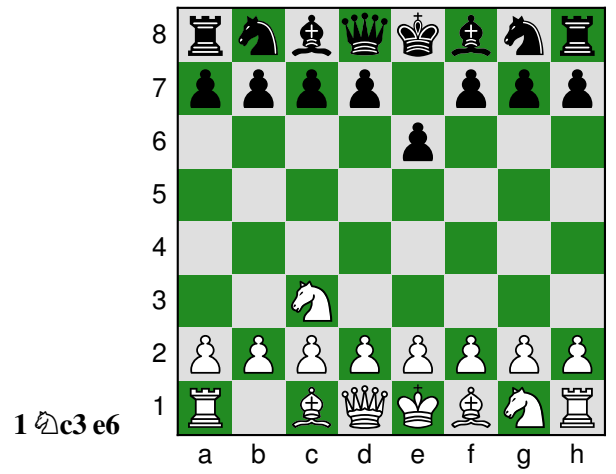
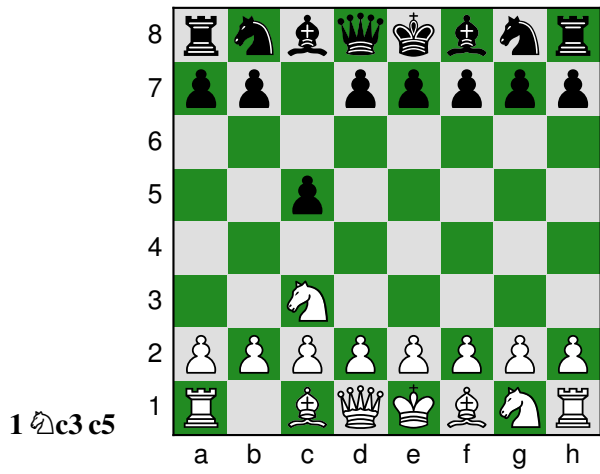
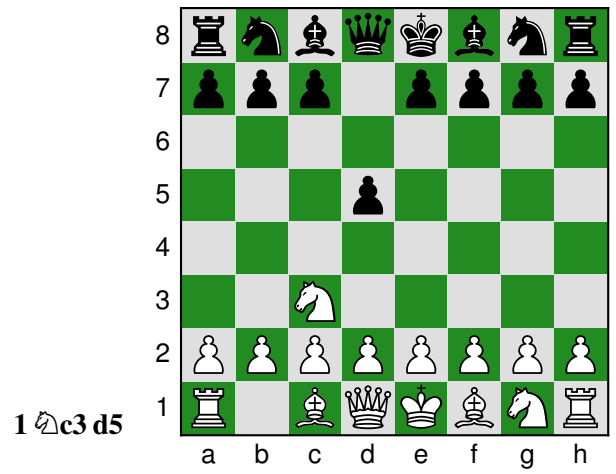
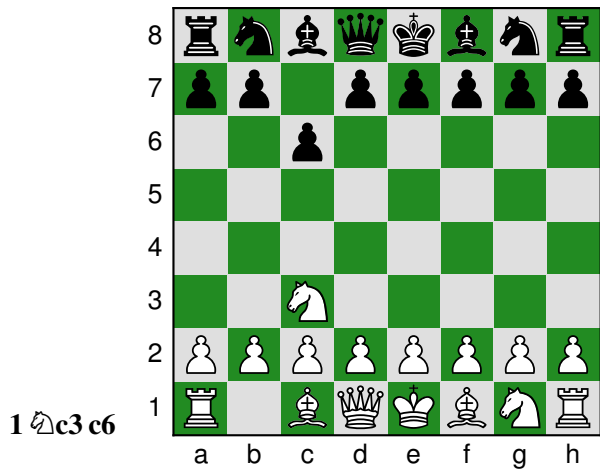


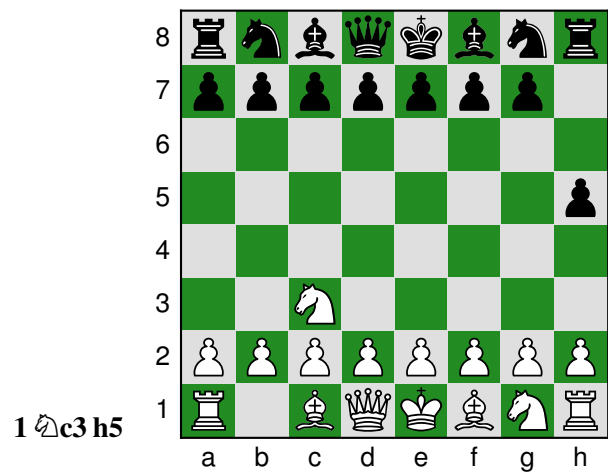
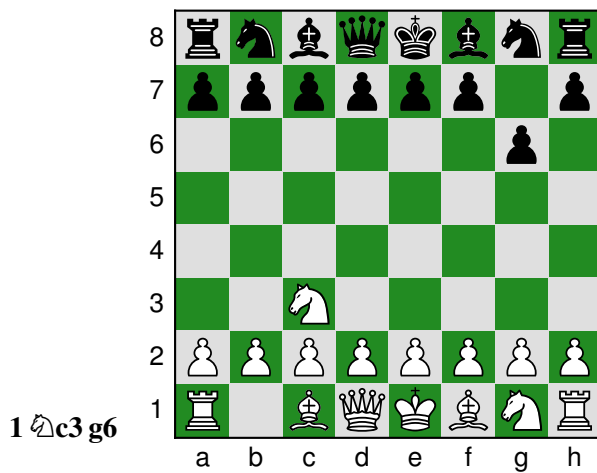
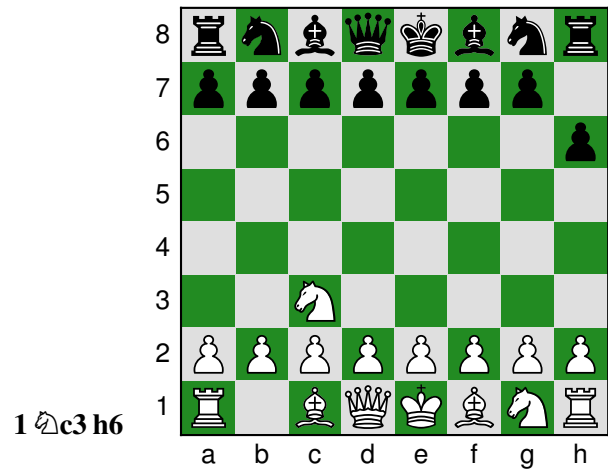
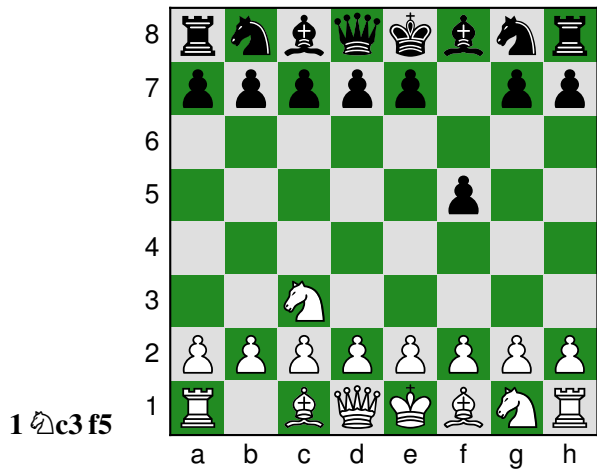
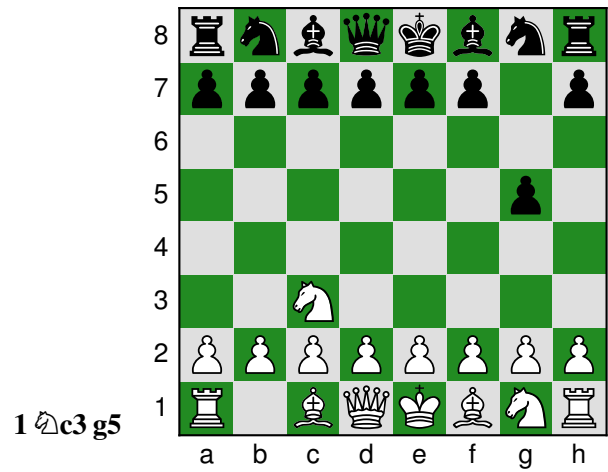
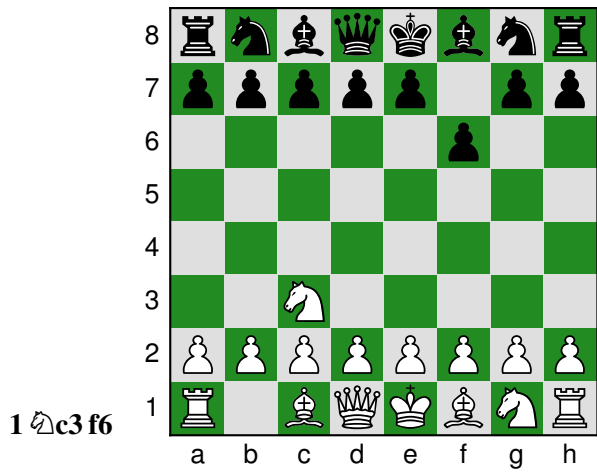


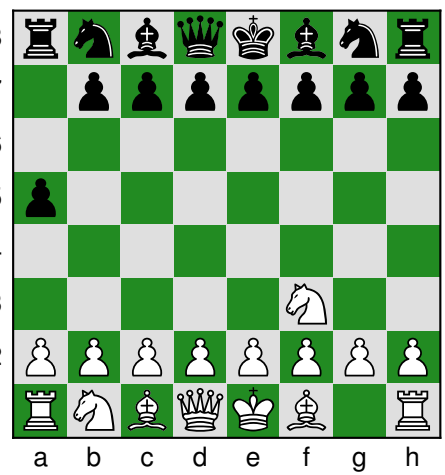
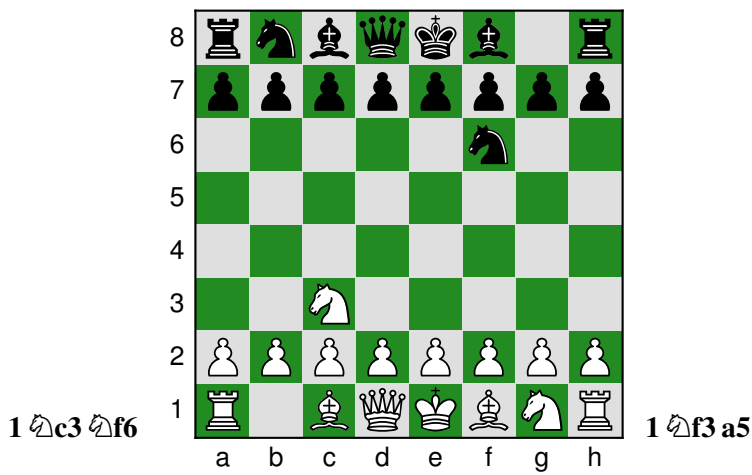
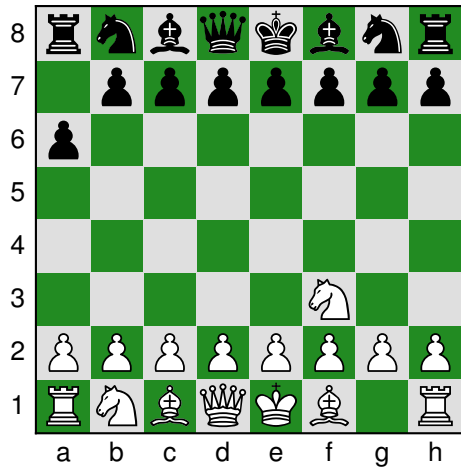
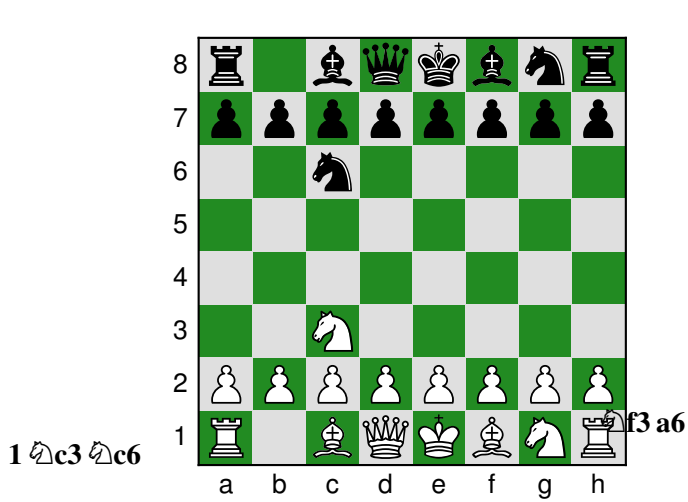
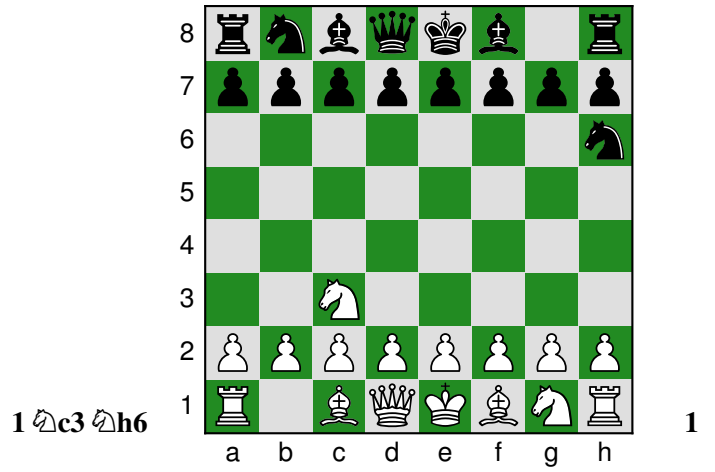
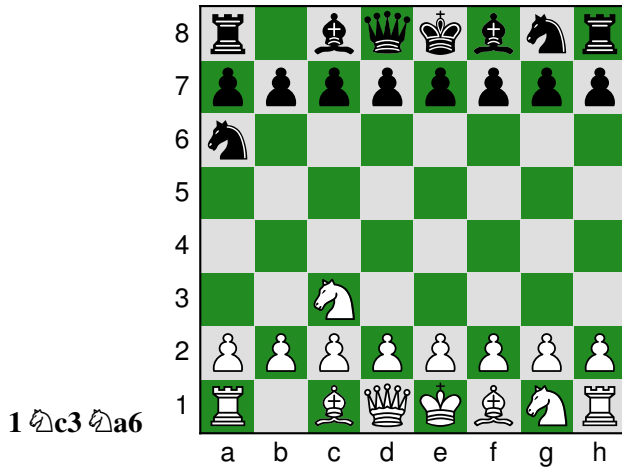


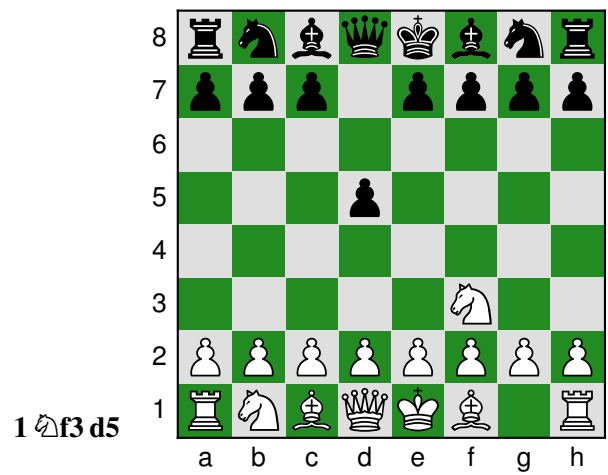
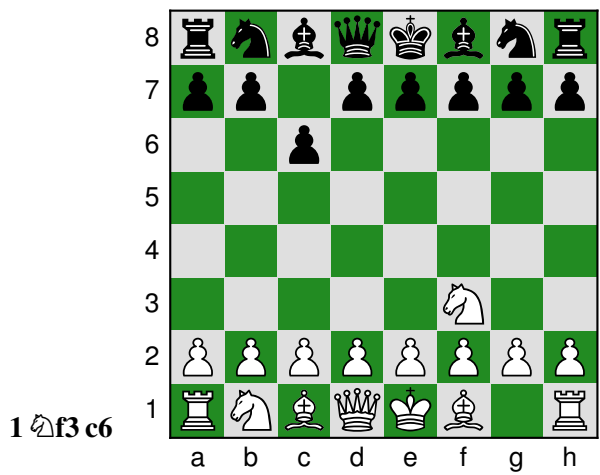
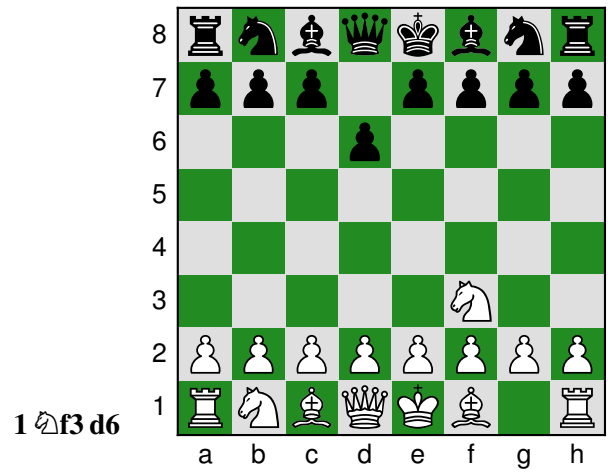
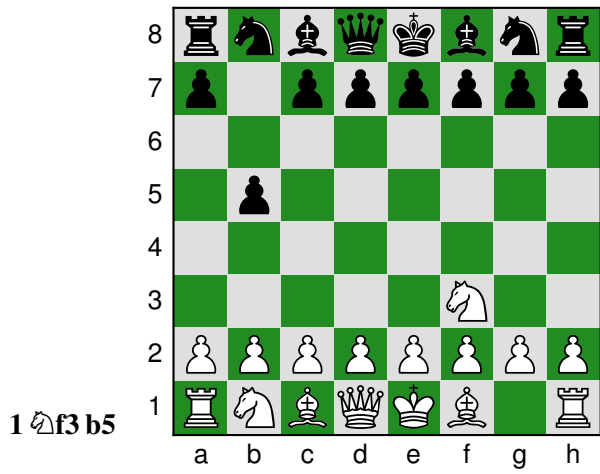
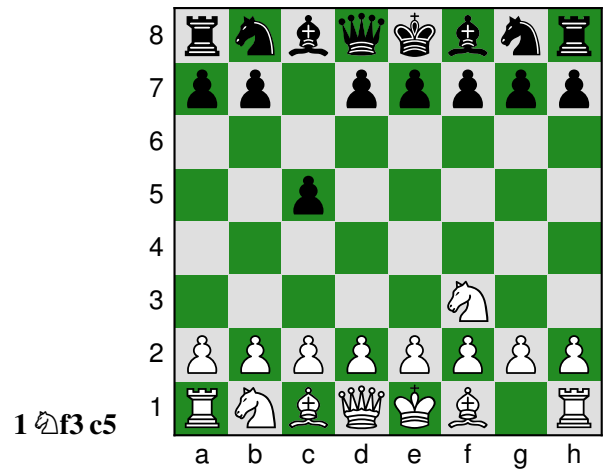
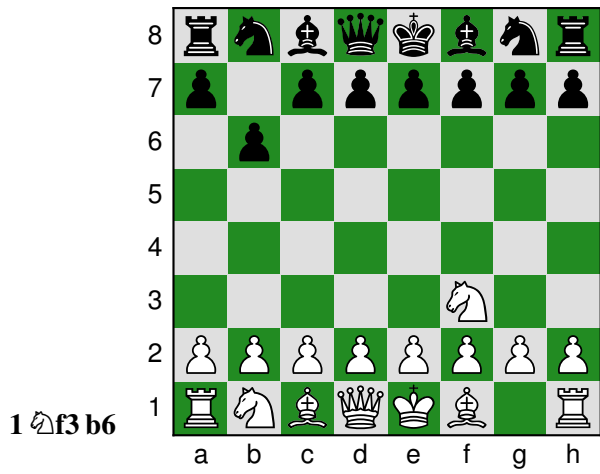


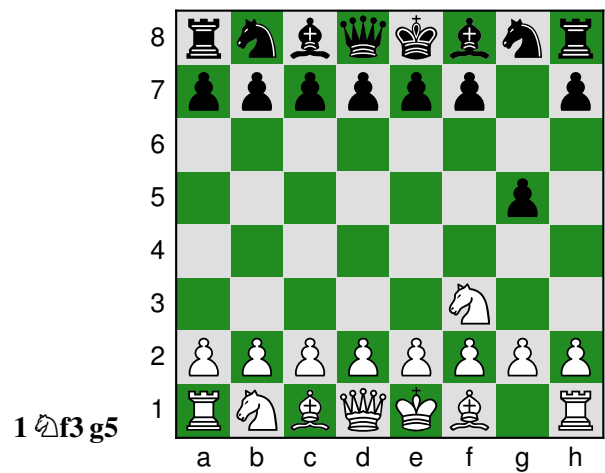
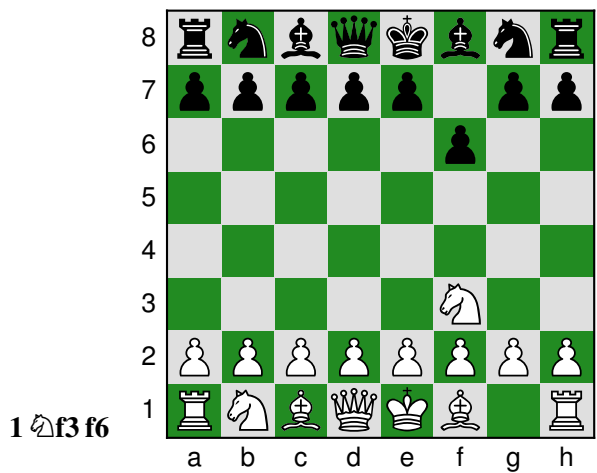
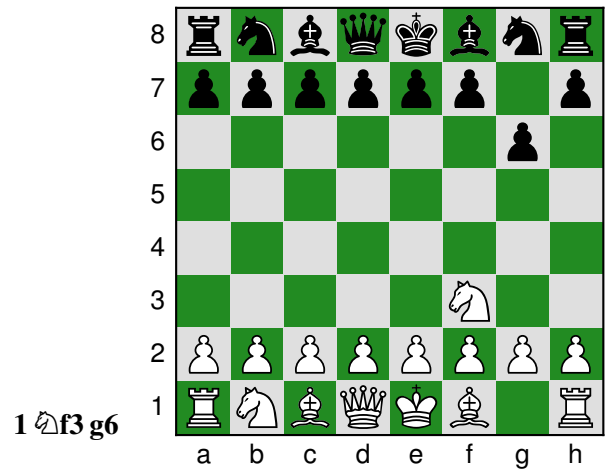
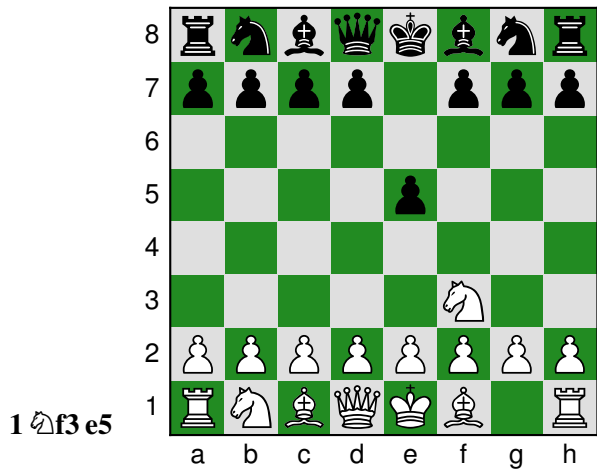
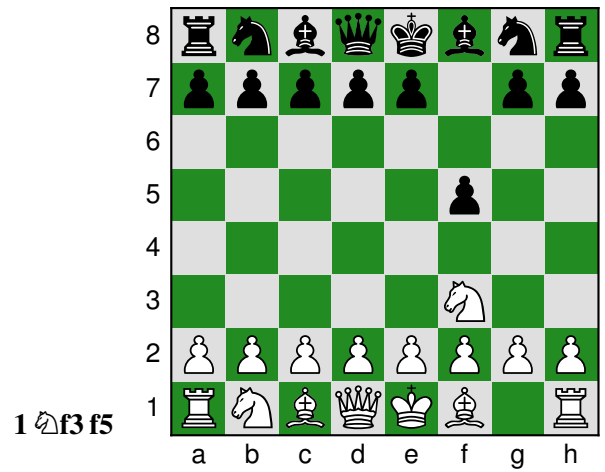
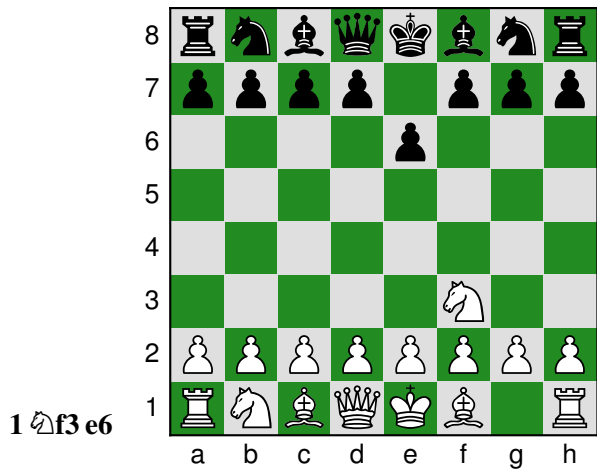


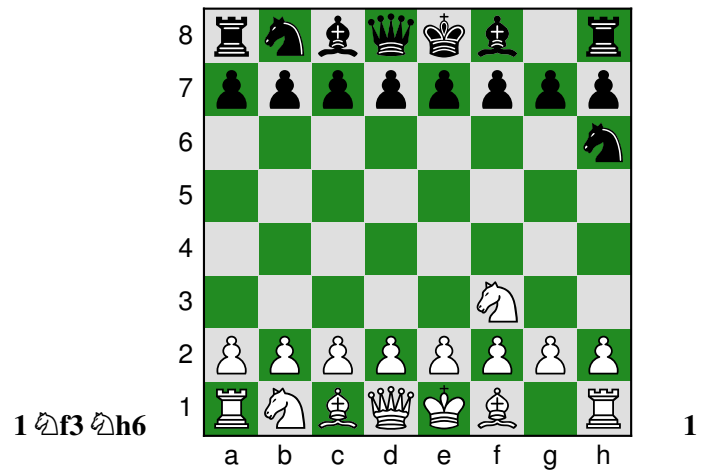
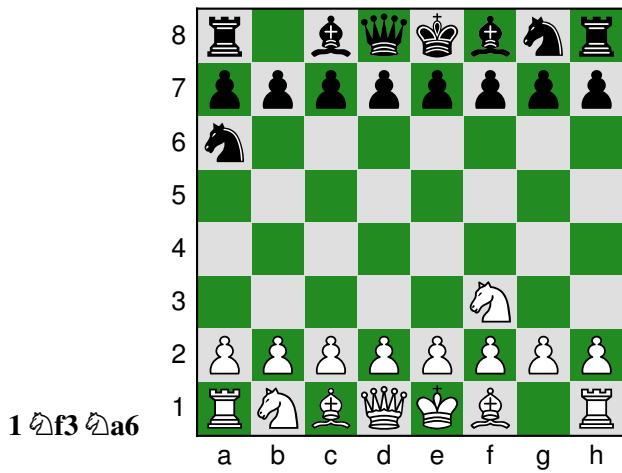
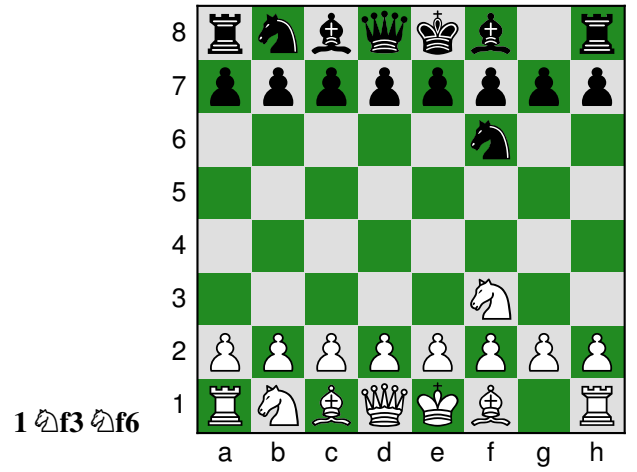
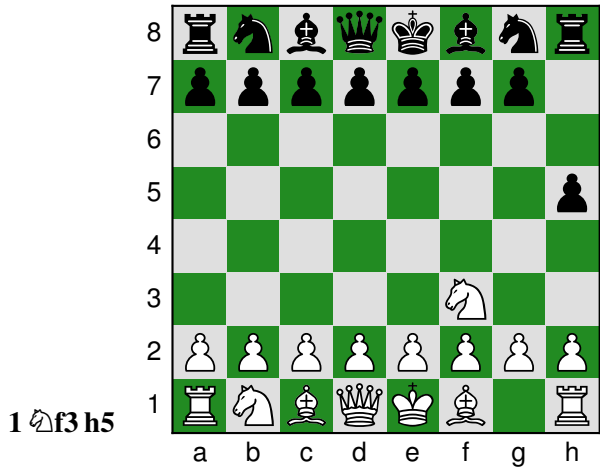
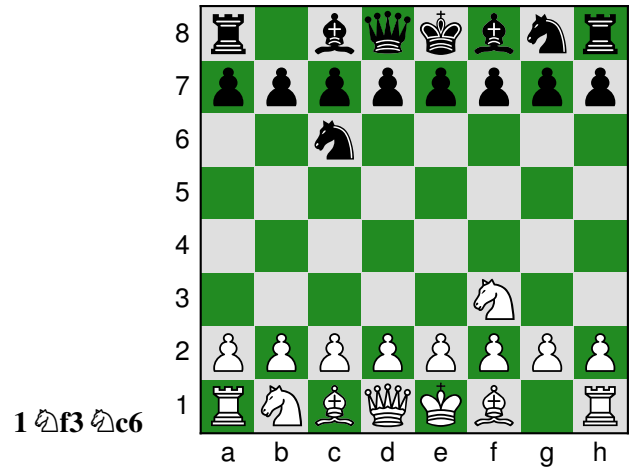
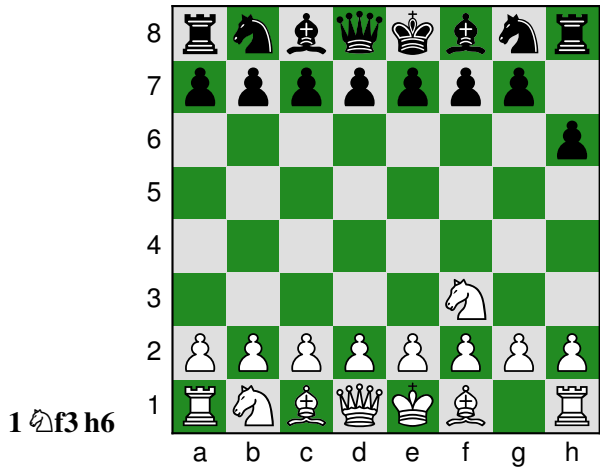




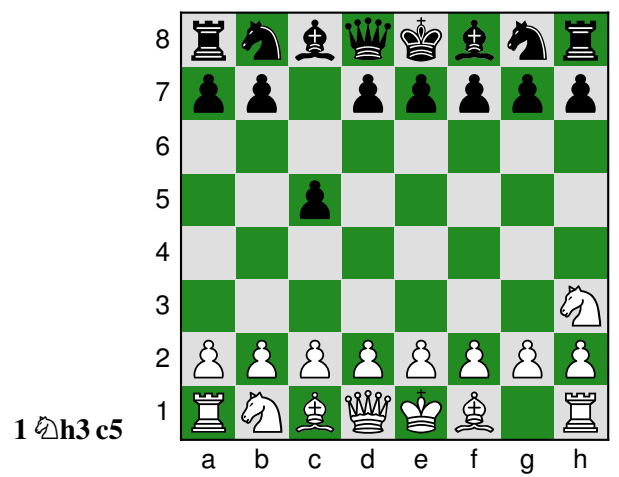
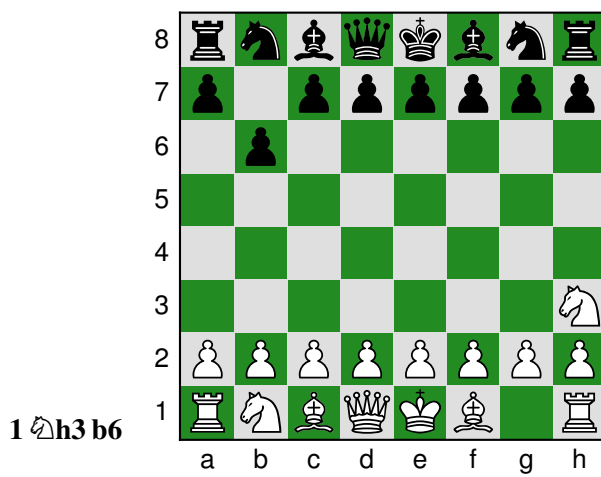
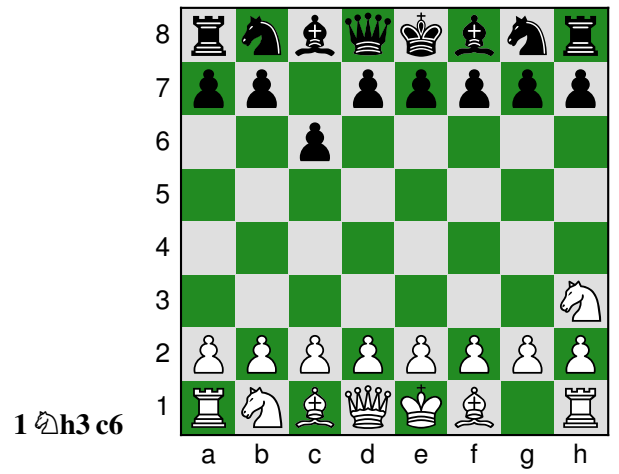
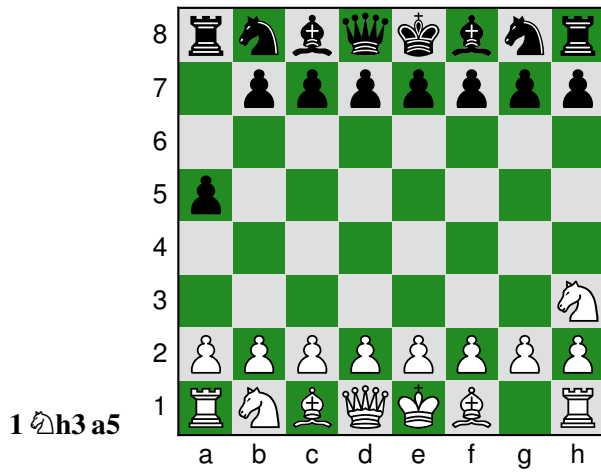
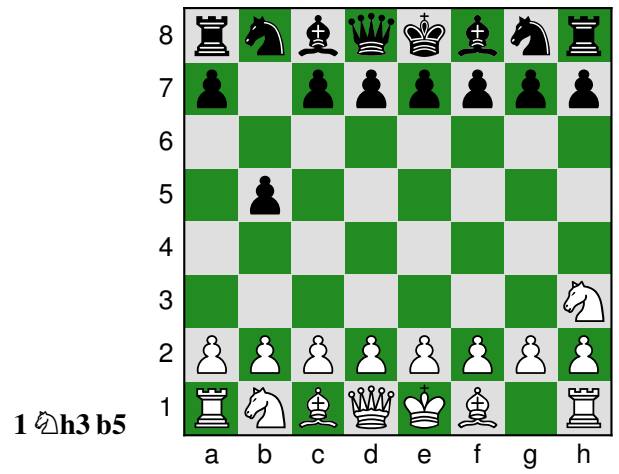
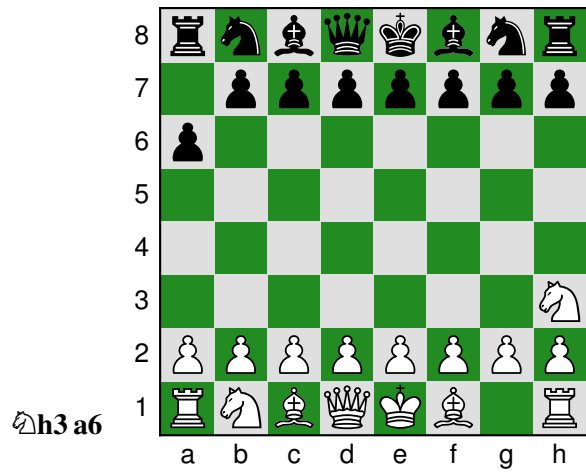


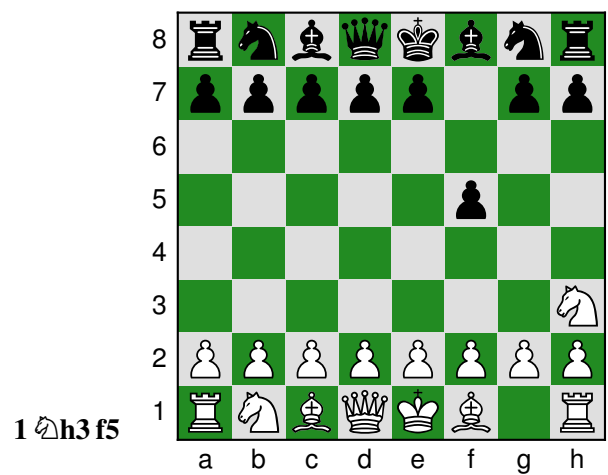
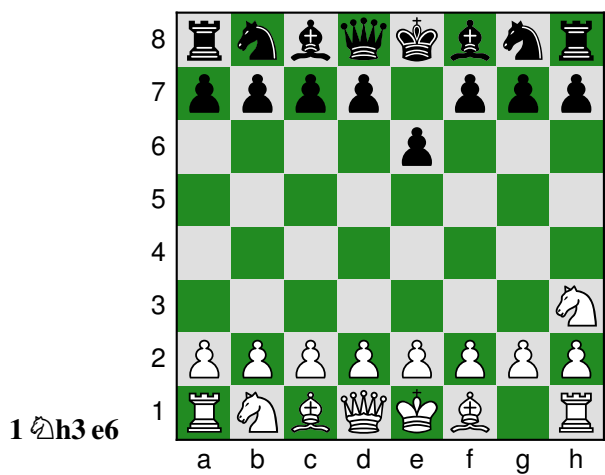
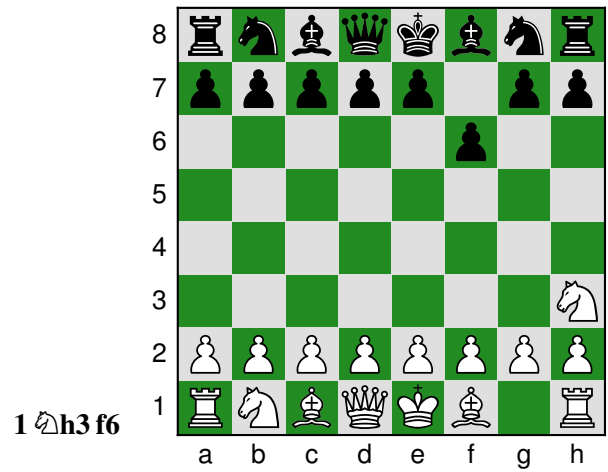
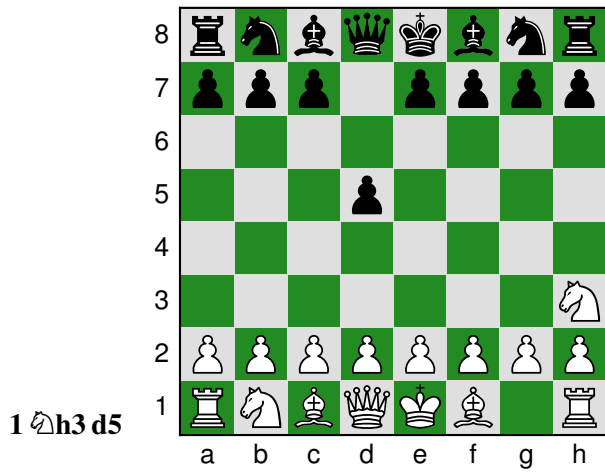
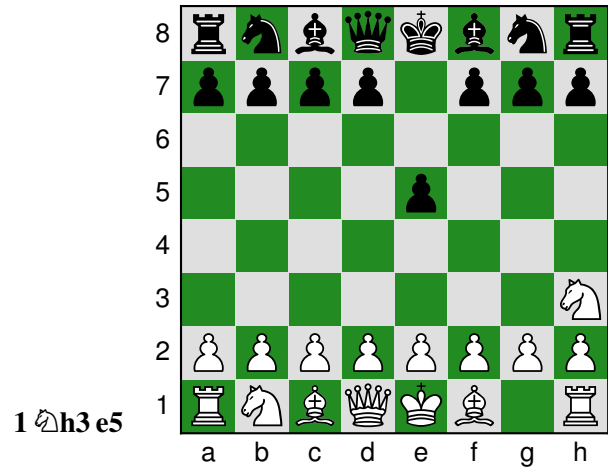
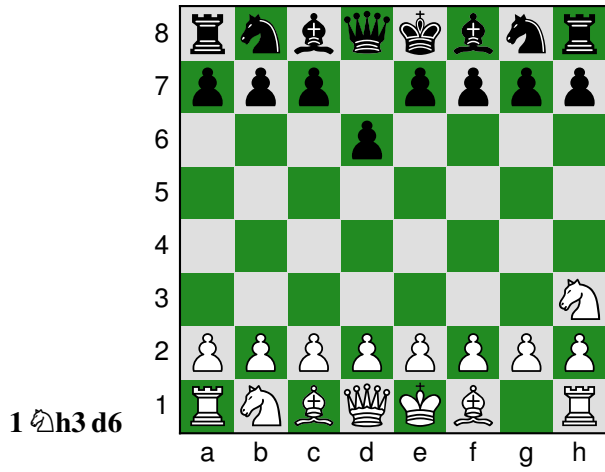


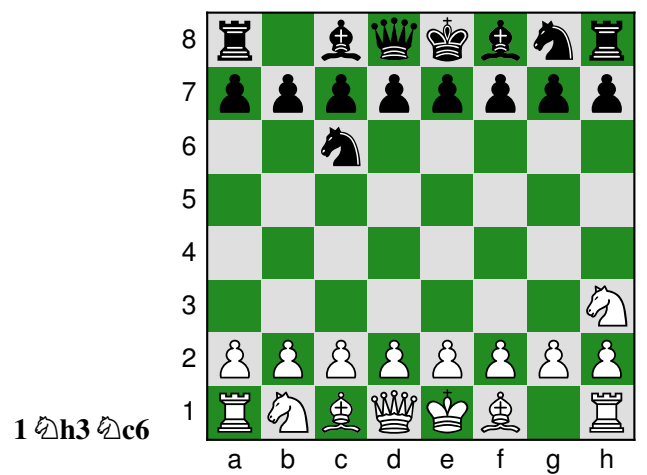
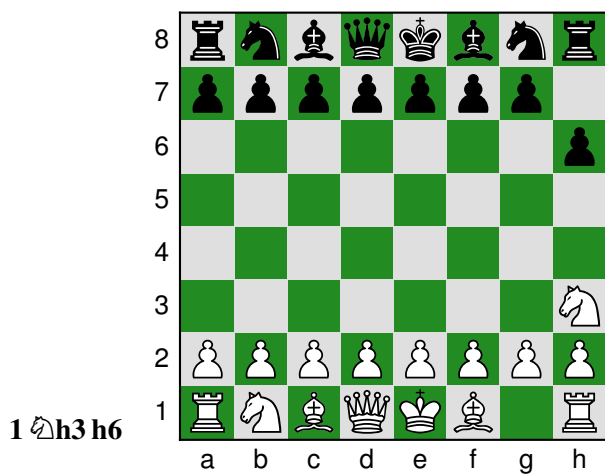
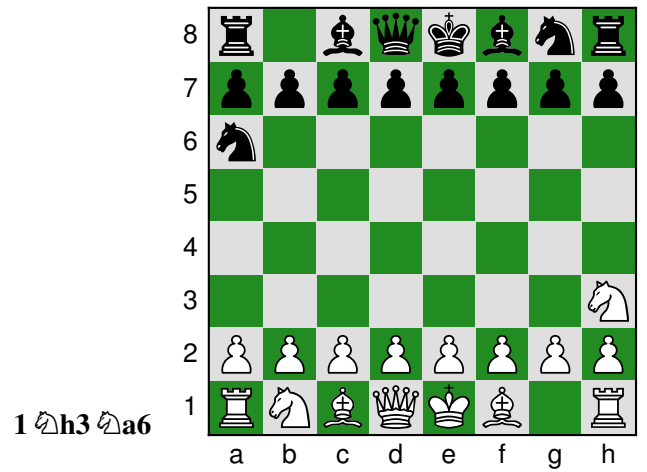
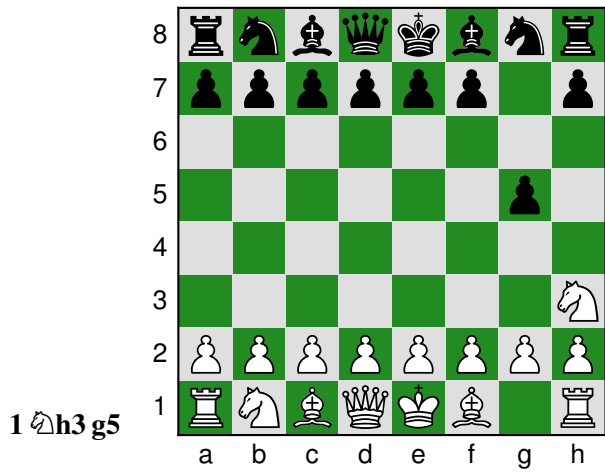
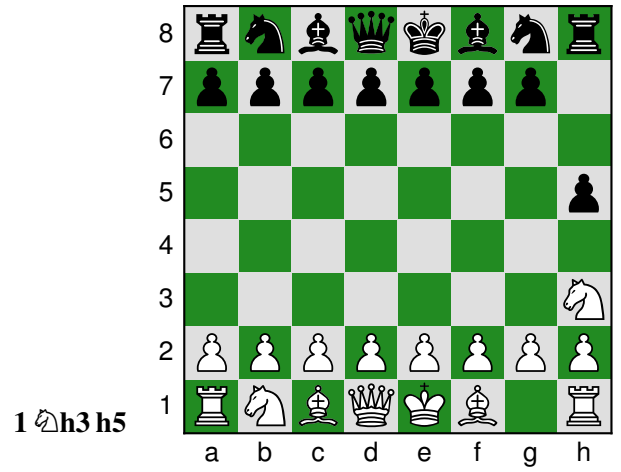
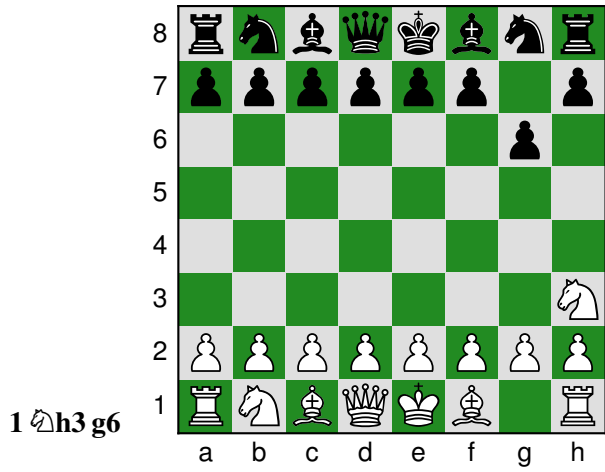


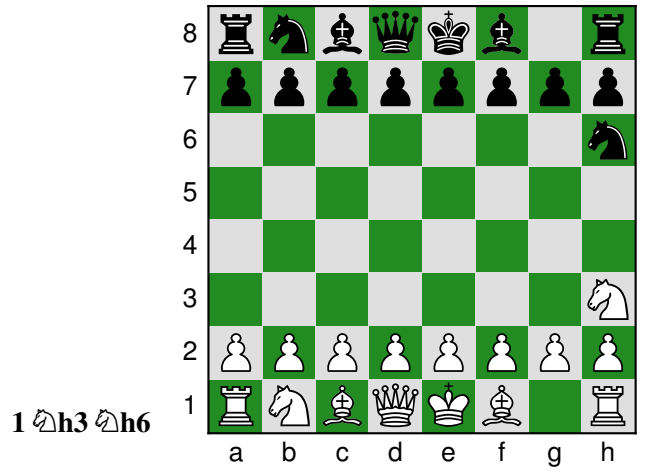
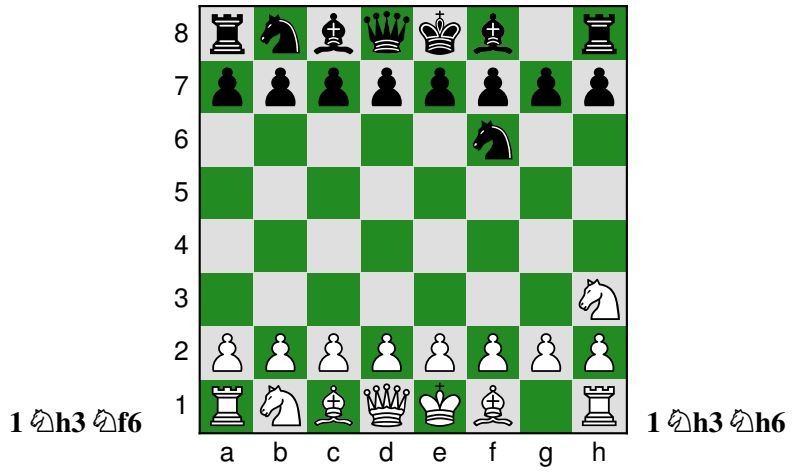












## References

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