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Introduction

Solving chess puzzles is certainly one of the best ways to train your chess mind, no matter your playing strength. I often prepare puzzles for lessons or assign them as homework when working with my chess students. The purpose is to help them work on specific areas of their game, usually their perceived weaknesses. This Workbook aims to provide similar training for club players in the 1500-1800 Elo range. Even if you, dear reader, are 100-200 Elo points below or above this range, I am confident you will find most of the material in this book suitable for your needs. Please keep in mind that the Elo ratings I refer to here and throughout the book are those used before the FIDE's proposed one-time rating increase in the January 2024 rating list for players rated below 2000. Therefore, if your 'old' rating was around 1580, for example, and the 'new' one in January 2024 is around 1750, the material in the book is aimed at your lower 'old' rating. By the same token, if your old rating was below 1200 but is close to or over 1500 after the one-time rating increase, you will likely find the material in the book more challenging than players rated 1500 before the rating change.

Training plan

This Workbook's format is similar to Volume 1 (aimed for 1800-2100 Elo) in that there are 40 exercises in each of the three key study areas: Tactics, Middlegame, and Endgame. However, I have emphasized the Visualization training module more in this volume since club players in the 1500-1800 rating range tend to have more consistent issues with this vital chess skill. Thus, 25 additional exercises in the Visualization Bootcamp chapter will help you work on your visualization. Therefore, there are 145 exercises in total.

Training module/ Training method	Description of the training method	Chapter 2: Visualization Bootcamp (25 exercises)	Chapter 3: Tactics (40 exercises)	Chapter 4: Middlegame (40 exercises)	Chapter 5: Endgame (40 exercises)
Blindfold chess	Solve the exercise without visual aids (or with the help of an empty chessboard)	5 Static Visualization exercises + 20 Dynamic Visualization exercises			
Find the best move	Solve the exercise with visual aids, but not allowed to move the pieces		20 Find a Hidden Tactic (FHT) exercises	20 Find the Best Move (FBM) middlegame exercises	20 Find the Best Move (FBM) endgame exercises
Analysis	Solve the exercise while allowed to move the pieces		20 Tactical Analysis exercises	20 Piece Trade Decision exercises	20 Endgame Analysis exercises

Here is the outline of our training plan:

You can probably tell from the table above that the exercises in this Workbook do not follow the standard 'White to play and win' format. Instead, I borrowed ideas from my previous two books, How to Study Chess on Your Own and the first volume of The How to Study Chess on Your Own Workbook, to create unconventional puzzles such as Dynamic Visualization, endgame analysis, and Find a Hidden Tactic (FHT). They will engage your mind in ways you may not be used to. More importantly, these training methods address typical mistakes you might be making in your games.

In the next chapter, I will elaborate on typical tactical, positional, and endgame mistakes of club players. You will also learn how the training methods and exercises in the Workbook can help you reduce corresponding errors. For example, a player who struggles with properly evaluating piece trades can tackle Piece Trade Decision exercises in the Workbook to improve his understanding and ultimately make better decisions in this area of his game.

Chapters 2 through 5 correspond to each of the four training modules listed above and serve as a training ground for rooting out the typical mistakes listed in Chapter 1. I will provide detailed examples and explanations of specific training methods in each chapter. They will prepare you to solve the exercises that follow.

Regarding the training material in the Workbook, the key difference compared to the previous volume is that most of the material comes from games of players in the 1500-2000 Elo range. The idea behind this approach is twofold. Firstly, you will probably have an easier time relating to the mistakes or strong moves that other players of a similar level made than those of a super-GM. Secondly, finding solutions to the problems of other club players should be easier or more realistic than chess professionals. Exercises gradually increase in difficulty, although it is not an exact science. You might find specific puzzles less challenging than those preceding them. Still, I can guarantee that the first few exercises in every set will be less demanding than the last few.

Scores and grading

Two valuable features I kept in this volume are scoring and grading exercises. Below is the breakdown of scores you can get for particular exercises in the Workbook (for your convenience, I have denoted them in italics):

No credit = 0 points.

One point = 1 point; Two points = 2 points, etc.

Full credit usually stands next to an alternative, earning you the same points as the main line.

Extra credit/Additional point means you get additional points (one or two) if you find a specific (usually difficult) move or line.

Here is what the score field looks like in the Textbook (the number of points after the '/' denotes the maximum score for the exercise):

Your score = <u>/5 points</u>

Once you've completed the exercise, you can tally the points you earned for your solutions (you can make more than one point per exercise, particularly in the 'Analysis' exercises) and insert this number in the blank space like the one above.

If you'd like to find out how you did in the whole section (20 exercises) or the training module (40 exercises), all you need to do is add up the individual scores for each exercise to get the total score and compare it to the Grading scale at the end of the chapter. This quantitative analysis will give you meaningful feedback about your overall work.

What to take away from this Workbook

While the primary purpose of this Workbook series is to provide you with training material, the second purpose, and perhaps equally important, is to teach you. There are two channels for this:

- 1. through instructive examples; and
- 2. explanations of the solutions.

In both, I identify critical instructive aspects of the position and help you draw conclusions about them. For instance, all solutions in the Middlegame and Endgame analysis sections end with a 'middlegame/ endgame lesson', a short piece of advice that can be easily remembered and applied in similar situations.

My chess students know I have often been guilty of giving them tough love when selecting puzzles for solving. My primary goal is to ensure the exercises are simultaneously challenging and instructive for your relative playing level. While finding the correct solution is the main task, understanding how to apply the proper thought process to solve similar problems in your games is just as important. If you want to improve at chess, solving chess puzzles should be less about satisfying your dopamine needs or stroking your ego and more about learning from them. I hope you embrace this growth mindset as you work through this Workbook.

Words of gratitude

Writing a chess book is not easy, but it feels satisfying and invaluable because you create something that can serve others for years to come. This is already my fourth book, and I am most grateful to the publisher Remmelt Otten for continuing to believe in my potential as a chess author. I want to give special thanks to Frank Erwich for providing advice and help with the material in this and the previous volume of the Workbook. I also thank Veneta Petkova and her students, as well as Mark Waterfield, Camilla Avelino, and Johannes Rappazzo for testing the Workbook material. Finally, a big 'Thank you!' to my family for their continuous love and support on this journey.

If you have any questions or comments, don't hesitate to contact me at dkuljasevic@gmail.com.

Davorin Kuljasevic Plovdiv, August 2023

CHAPTER 1

Typical Mistakes of Club Players

While it does not contain any exercises, this chapter is essential to understanding what the Workbook is about. I recommend you study it carefully. It can help you identify to which degree typical shortcomings I will explore may be present in your play.

The themes on which the exercises in the Workbook are based correspond to the most typical mistakes players in the, broadly speaking, 1500-2000 rating range make. We can group them in the following way:

- 1) Calculation and tactical mistakes
 - a) Visualization mistakes
 - b) Poor tactical awareness
 - c) Blunders or missing your opponent's resources
- 2) Positional mistakes
 - a) Wrong piece trade decisions
 - b) Poor strategic decisions
- 3) Endgame mistakes
 - a) Big mistakes in theoretical endgames
 - b) Poor endgame technique
 - c) Wrong pawn or piece trades in the endgame

The mistakes listed above are often critical; that is, they tend to swing the evaluation of the position or the outcome of the game sharply. Hence, players at the 1500-2000 level should work on minimizing and eventually rooting out these mistakes to get their game to a higher level. We will see several instructive examples for each type of mistake and then discuss how to address them through training.

Before we move on, I want to stress that the idea behind this type of analysis is not to criticize the players who made those mistakes but to classify the mistakes and learn from them.

1) Typical calculation and tactical mistakes of club players

a) Visualization mistakes

Example 1

Training game between two club players

2022



White has sacrificed a pawn in the opening to get this typical bind on the Semi-Slav. His compensation is based on the stable space advantage. Feeling a little uncomfortable due to a lack of space, Black thought he saw a chance to break out with a thematic move:

17...c5??

This move was based on the following line:

18.bxc5 🖄 xe4 19. 🕯 xe4 🕯 xe4

In the ideal world, the black bishop broke free, and he kept the extra pawn. However, he failed to visualize that after

his a6-knight remains undefended precisely because of the 'activation' of his light-squared bishop. Black focused on the implications of the central break so much that he failed to visualize the simple threat to his knight when the bishop stopped defending it.

Inaccurate visualization can take many forms. For example, in the following game, Black had the right winning idea in the critical position but failed to visualize its consequences properly.

Example 2	
R. Johansson	1946
Ivar Josefsson	1655
Växjö 2023	



Josefsson calculated a forced line: 14...公d4! 15.c3 公e2+ 16.堂h1 公g3+! 17.hxg3 fxg3 18.罩xf8+

18.¤g1 also loses to 18...¤f5. **18...¤xf8**

with unstoppable checkmate. Unfortunately, he backed out of it. He said: 'I couldn't see this position clearly when visualizing. Looking at it now, it's crushingly winning, but I started getting unsure after 18.\[xf8.'] He was so close! However, hazy visualization gave him second thoughts and prevented him from pulling the trigger. Finally, he settled on 14...單f6, a decent move that keeps a large chunk of Black's advantage, but not nearly as decisive as 14...公d4. In the end, he even lost the game.

The visualization mistakes made in the previous two examples are typical. They contain several common elements:

1. There are many **'moving parts'**, i.e., pieces changing squares or getting traded. They make paying attention to tactical details trickier as you try to visualize new positions.

2. There are several **'status changes'** (I would like to credit my student Oren Livne for this term), i.e., new squares, files, and diagonals are cleared or attacked due to the move sequence. An excellent example of a status change is the a6-knight being suddenly undefended after 19... **@**xe4 and attacked after 20. **@**xd8 in the first example.

If you have had similarly frustrating experiences, there is no doubt: you should work on your visualization if you want to take an extra step forward in your game. Poor or inaccurate visualization will always haunt you in chess; there is simply no way around it.

Fortunately, many good resources in this area have become available in recent years. Books such as Cognitive Chess by GM Konstantin Chernyshov or online visualization tools such as the Visualization Booster on modern-chess.com come to mind. In the next chapter, I provide two modes of visualization training where you can put your blindfold chess skills to work. These are:

1. Static Visualization exercises – visualizing squares, diagonals, files, and knight geometry;

2. Dynamic Visualization exercises – visualizing 3-5 move sequences like the above examples.

b) Poor tactical awareness

To understand why this common and costly mistake usually happens, let's ask ourselves: how does one spot a chess tactic in the first place?

People are different, and so are their answers to this question, but I believe that for most of us, it starts by spotting a 'tactical trigger.' A tactical trigger is the most common condition before a tactic occurs. A list of common tactical triggers includes (but is not limited to):

1. Undefended pieces;

2. Pieces in contact (pieces that are under attack by the opponent's piece but not necessarily undefended);

- 3. Exposed king;
- 4. Exposed piece;

5. Geometry between the pieces (usually gives rise to forks, pins, skewers, discoveries, etc.);

6. Pawn promotion.

In my experience, many mistakes of club players that fall into this category are due to failing to spot one or more tactical triggers introduced by a new move. Let us examine a typical example.

J. Bumbak

A. Lee

1556 1451

Scarborough WA 2023



After some simplifications in a Caro-Kann, the players entered this roughly balanced endgame. White thought it made sense to solidify his pawn structure with: **20.g3?**

While positionally desirable, this move shows a lack of tactical awareness. There has been a subtle status change in the position: the pawn's advance to g3 has opened the h1-a8 diagonal and created a point of contact for the black knight. It adds another 'contact' (a type of tactical trigger) to this position. At this point, three contacts are present:

1. A direct vertical contact between ≝d8 and ≜d3;

2. A direct knight contact between 公f5 and the g3-pawn;

3. An indirect diagonal contact between 26 and 24 and 2d3. These tactical triggers should prompt us to look for a way to exploit White's last move tactically. 20...2xg3!

Black did not take the tactical cue from the opponent's last move when he played 20... Id5?, going for the e5-pawn. White could have defended it elegantly with 21. Ihe1!, when Black would have nothing better than to go 21... Ihd8 (since 21... Ixe5?? loses to a discovered attack: 22. Id6+ Ixe5) 22. Ic2, holding the balance.

21.fxg3

21.心xg3 loses to 21...ጃxd3 and 21.心d6+ to 21...ጃxd6 22.exd6 心xh1.

21....Ïxd3 22.∅d6+!

This is White's best try. 22.\[xd3 is met by 22...\]xe4-+.

22... **bc7** 23. **Xd3 kd3** 24. **Axf7** Despite returning the lost pawn,

the endgame after

24...⊑f8 25.⊘g5

(or 25.⁄⊡d6 ≣f2-+)

25...**≜c**4

looks bad for White due to the multiple pawn weaknesses. Club players usually don't have a problem finding tactics with straightforward geometric features or well-known patterns. However, the relatively complex sequence starting with 20...公xg3! escaped both players. The apparent solidity of the white position partly concealed it.

Another reason why non-obvious tactics like this one can be tricky to spot, is that during the game a player doesn't know a tactic exists in the first place. Contrast this to the typical puzzle-solving setting, where you know exactly when to look for a tactic and, sometimes, what the objective is (e.g., Black to move and win, deflection, checkmate, etc.).

You need to develop a keen recognition of tactical triggers or 'Tune Your Chess Tactics Antenna,' as Emmanuel Neiman called it in his book, to find such 'hidden' tactics in the heat of the battle. Since I don't believe the typical tactical puzzles are ideal for improving that aspect of your game, I have created Find a Hidden Tactic puzzles. They were already featured in the previous volume of the Workbook and were received positively by the readers, so including them in the 1500-1800 Volume was a no-brainer. More on them in Chapter 3: Tactics Training.

c) Missing the opponent's resources

Example 4	
Johannes Rappazzo	1766
J. Scherler	1962
ch-SUI U16 rapid 2023	



White shouldn't have problems converting his material advantage since he controls the a-file, and at least one of the black queenside pawns will likely fall. However, he managed to throw the game in one move with:

25.Äa8??

Instead, a little prophylaxis with 25.g3 was called for. After 25...公d5 26.簋a5, followed by 簋fa1, White should have a technical job of converting the advantage. He missed that after **25...公h3+26.登h1** his opponent has: **26...公xf2+!** White resigned in view of **27.簋xf2 營c1+** with a back-rank mate.

Exercises

Static Visualization exercises

Exercise 1: How many light squares are there in the set?

1.	$e4-a2-\underline{f8}-\underline{g1}-g4-\underline{h8}$	There are 3	light squares in the set.
2.	f3 - b7 - g7 - b1 - h3 - e6	There are	light squares in the set.
3.	d8 - f7 - a3 - a5 - b5 - a7	There are	light squares in the set.
4.	d6 - a8 - d2 - f1 - b8 - c8	There are	light squares in the set.
5.	g8 - a6 - b3 - h6 - e3 - d1	There are	light squares in the set.
6.	f5 - c3 - d4 - c5 - e2 - b6	There are	light squares in the set.

Exercise 2: How many dark squares are there in the set?

1.	$\underline{d5} - b4 - \underline{g2} - b8 - \underline{d3} - \underline{b5}$	There are 2	dark squares in the set.
2.	h5 - c2 - g3 - d1 - f2 - h7	There are	dark squares in the set.
3.	b3 - c6 - g8 - g5 - a1 - c4	There are	dark squares in the set.
4.	f4 - c1 - g6 - c7 - e7 - e2	There are	dark squares in the set.
5.	e3 - f6 - e1 - d7 - e5 - h4	There are	dark squares in the set.
6.	h1 - c5 - h2 - e8 - a5 - a4	There are	dark squares in the set.

Exercise 3: Where do the file/rank and the diagonal intersect?

1.	d-file and diagonal b8-h2:	d6
2.	fifth rank and diagonal a8-h1:	d5
3.	g-file and diagonal f8-a3:	No intersection
4.	sixth rank and diagonal a2-g8	
5.	first rank and diagonal a5-e1	
6.	b-file and diagonal a3-c1	
7.	second rank and diagonal a6-f1	
8.	h-file and diagonal d8-h4	
9.	d-file and diagonal g1-a7	
10.	seventh rank and diagonal e8-h5	
11.	a-file and diagonal h7-b1	
12.	eight rank and diagonal a5-d8	
13.	c-file and diagonal f1-a6	
14.	fourth rank and diagonal a1-h8	
15.	third rank and diagonal a4-d1	
16.	e-file and diagonal h3-c8	

Exercise 4: Please name the connecting squares on the bishop's route. Please note that more than one solution is possible in certain instances.

1. d6 - f8/f4 - h6 - f8/g5 - e7 - f6 - h8 - c3 - d22. d5 - c2 - b7 - e8 - f13. a2 - d7 - a8 - d1 - c84. a3 - d8 - e1 - a7 - b45. c6 - b1 - g4 - c4 - g26. f8 - b8 - e1 - a3 - g37. g8 - d3 - a8 - c8 - g68. h2 - c5 - f4 - d8 - b8 - b7 - c8 - g210. a8 - 55 - 67 - 65 - g210. a8 - 55 - 67 - 65 - 61311. a1 - c8 - 67 - 61 - 66

Exercise 5: Please name the connecting squares on the knight's route.

1. $e^3 - c^2 - a^1 - b^3 - c^5$ 2. b2 - c4 - d2 - e4 - f23. a8 - c7 - e6 - g5 - f3 - e14. b4 – ___ – c7 – ___ – f8 5. h6 - _ - d8 - _ - d4 6. a6 - -e4 - -h17. f3 – _ – b1 – _ – d5 8. g4 - ___ - d7 - ___ - a1 9. h2 - g1 - g1 - f2 - g310. $a_2 - a_3 - d_5 - a_3 - a_8$ 11. g2 - c6 - c612. h7 – _ – h5 – _ – h3 – _ – h7 13. d4 - c = -e5 - c = -f6 - c = -g714. h1 – _ – _ – a6 15. a8 – _ _ c8 – _ _ f2 16. f5 - a - d1 - a - a - c - c - f517. h1 - _ - _ - b2 - _ - e8 - _ - a6 18. c3 - -a3 - -a1 - -c1

Dynamic Visualization exercises

Dynamic Visualization – Exercise 1



Please visualize the position after the following sequence of moves:

11...Ôxe4 12.Ôxc6 Ôxd2

13.②xb4 ②xf1

A) What is the material balance?

B) How many white pieces are under attack?

C) Can White safely play 14. 2d2?

Dynamic Visualization – Exercise 3



Please visualize the position after the following sequence of moves: 16...b5 17.axb4 bxa4 18.公xa5

A) What is the material balance?

B) Please provide the positions of all the white queenside (a- to d-file) pawns.

C) Please provide the positions of all the black queenside (a- to d-file) pawns.

Dynamic Visualization - Exercise 2



Please visualize the position after the following sequence of moves:

20.¤d7 ⊘xd7 21.₩xd7 ≜xg2 22.≜xg2 ≜xb4

A) What is the material balance?

B) Please provide the positions of the white and black minor pieces.

C) Can the a8-rook be captured?

Dynamic Visualization – Exercise 4



A) What is the material balance?

B) Please provide the positions of the remaining white and black pieces (without the pawns).

C) Is 25... dd3 a safe move for Black?

Dynamic Visualization – Exercise 5



Please visualize the position after the following sequence of moves: 13...e4 14. 2xd8 2xc3 15.bxc3 exf3 16. 2xf3 2xf3 17.gxf3 2axd8

A) Provide the positions of the remaining white and black pieces (without the pawns).

B) What is the material balance?

C) Does White have any doubled pawns? If so, please provide the squares of the doubled pawns.

Dynamic Visualization - Exercise 7



Please visualize the position after the following sequence of moves: **33...公c3+ 34.띨d2 營xd2+**

35.**≜xd2 e3+**

What is the best move for Black after:

- A) 36. & xe3 ?
- B) 36. 🕸 xe3 ?
- C) 36.曾f3?

Dynamic Visualization - Exercise 6



Please visualize the position after the following sequence of moves:

- A) What is the material balance?
- B) Where are the black rooks?
- C) Can Black safely play 32... \[equiverset equiverset equination equiverset equiverset equiverset equiverset equiverset

How about 32... \delta d2 ?

Dynamic Visualization - Exercise 8



Please visualize the position after the following sequence of moves: 63. ②f5+ �ac3 64. ③xg7 �axb3 65.h5 �axa3 66.h6

A) What is the material balance?

B) Provide the positions of all the remaining pieces and pawns.

C) Can Black prevent the promotion of the white h-pawn?

Tactical Analysis - Example 1



In this position, White has a choice between two captures, **17.**公**xc4** and **17.**皇**xc4**.

Please take 5-10 minutes to analyze them according to the guidelines laid down above.

Your analysis should reveal that 17.公xc4

is the correct choice. If this were a scored exercise, you would get one point for providing this as your solution.

The alternative 17. £xc4?? looks very tempting since White would get a big positional advantage if he could get in ⁽²⁾a5-c6 next. However, this move is a blunder. Black can utilize the contact with ⁽²⁾a5 and 意c4 by playing 17...罩c5!, which prevents 🖄 a5-c6 and wins a piece for Black. You would get one point for finding this refutation, but no credit if this was your choice and you missed the refutation (17... 皇d8 would be the wrong way to do it because of 18.公c6±). 18.b4 罩xa5 0-1 (44) Chiang-Porta Campos, Caldas Novas 2011. Black's best reply is 17.... **響a**7!

because it keeps the a6-pawn protected. You would get extra credit (one point) for analyzing this continuation. Any other move, such as 17...C5, gets no credit since it allows 18. $\textcircled{O}a5\pm$ with either Lxa6 or Oa5-c6 to follow. The analysis below is not essential, but it has some significance in proving that Black is doing okay: **18.\textcircled{O}a5**



18...**¤c**5!

Reminding White about his weak d5-pawn.

The maximum score for this puzzle is three points (one for seeing that 17.②xc4 works; one for finding why it doesn't, i.e., the refutation of 17.③xc4, and one for finding 17...營a7! in your analysis of the 17.②xc4 line). In other words, the moves you analyze are not mutually exclusive when it comes to points you can earn on the exercise. It's just as important to analyze the wrong line as the correct one.

In most Tactical Analysis exercises, you will have two or a maximum of three options to analyze. However, in the following practice example, we will need to examine as many as five candidate moves to arrive at the right solution. Please note that this example is fairly challenging. I include it to illustrate a step-bystep analysis process when more than one logical candidate move is involved. You may not get this situation too often in your games, but it's good to be aware of the proper mechanics if you do.

Tactical Analysis - Example 2



White to play and win

A) 21.邕xe8+ 鬯xe8

The back-rank problem for White is obvious here, and Black has unpinned.

22.h3 ≗c6

You get one point for concluding Black is okay in this line. We can reject this candidate and move on.

B) 21.¤ed1,

the next logical move, reinforces the pin and avoids the mate on e1. However, Black has two defenses against it:

21...**鬯e**7

(one point), and 21...) 響f6!? (also one point) 22. 基本d7 (22. 公 e4 響f5=) 22... 基e5!, winning the piece back. 23. 公 e4 基本e4 24. 基本c7 基ae8 些. **22. 基e4**



22...<u>ĝ</u>g4‼

You would get extra credit (two points) for finding and analyzing this strong move. Alternatively, 22... 皇e6 23. 公xe6 fxe6 saves the piece, but doesn't equalize fully (one point).

is another sensible idea, covering the back rank and increasing pressure on d7. However, it fails, as well, this time to:

21...**≝xe1+ 22.**₩xe1 ₩e8!

(one point) and Black forces an equal endgame:

D) Next, we could try to avoid the back-rank issues altogether with: 21. If 1!?

White seems completely winning at first. However, another problem pops up. Black can unpin with a tempo by playing:

21....響f6!

(21...띨e7? 22.鬯d1+-), when

22.¤xd7 ¤e5

(one point) helps him win back the sacrificed piece. None of White's replies gives him more than a slight advantage. For example:

23. @e4! Ixe4 24. Ixc7±

E) After running through the most obvious candidate moves, we realized that Black has two sources of counterplay – the back-rank mate and the e-file (via ...營f6/...疍e5). Is there a way to protect the back rank while simultaneously covering the e-file?

21.≝e3



How about this? Let's analyze Black's options:

21...^Txe³

The alternatives are 21... 罩e7 22. 變e2 罩xe3 23. 變xe3+- (the back rank is covered) and 21... 變f6 22. 罩xd7+-. There is no ... 罩e5 now!

22.fxe3

The back-rank issue is finally solved!

22...**₩e**8

This move is Black's only chance. **23. Xxd7**

You would get two points if you analyzed up to here.



You could earn extra credit if you analyzed any of the following lines: **23...b6**!

The only way not to remain down a piece.

23... 響xe3+ amounts to only a few spite checks after 24. 查f1 豐f4+ 25. 豐f3 豐c1+ 26. 黨d1+- (one extra credit point for analyzing up to here). Black gets two pawns for the piece, but it should not be enough in this position.

Still, after

24.罩d3 bxc5 25.響xc5

(one extra credit point) White would have a good chance to win this position with an extra pawn because of the opponent's poor queenside structure.

The maximum score on this exercise is ten points. It shows that you get credit primarily by focusing on the width of your calculation tree. While important, analyzing the right solution until the end is secondary in this type of exercise. For example, you would earn a lower score if you analyzed only the best move 21. Ze3! in depth and skipped all other candidate moves than if you analyzed most of the five candidates but missed 21. Ze3. This way, I would like to help you avoid a typical 'tunnel-vision' approach to the calculation that can result from solving too many 'White/Black to move and win' types of puzzles. This tendency can sometimes lead to the 'long variation-wrong variation' calculation, where one wants to find the 'right' line in virtually every position. If you get into this habit, you will likely start missing something evident on the first or second move due to overreliance on depth over width.

By contrast, the previous example showed us what a properly structured, thorough tactical analysis looks like. To recap:

1. We considered all the logical, relevant candidates on the first move;

2. We tried to refute them by focusing on the most resourceful replies of our opponent;

3. We focused on one line at a time and analyzed particular lines <u>until</u> we exhausted the forcing moves and could reach a logical conclusion. The underlined part is critical to good analysis and will bring you many extra points in this exercise.

In the actual game, you will not have the luxury of moving the pieces as you do here. However, the analytical home practice of this sort will help you structure your calculation process. You will miss fewer relevant candidate moves and your opponent's resources with the proper analytical framework.

In conclusion, always look for how your opponent could refute the move you are considering. As we have seen here, even if it seems like the 'right' move, it could have a tactical problem.

Good luck with the following exercises!

Piece Trade Decision exercises

Piece Trade Decision - Exercise 1



Is it better for Black to trade the light-squared bishop with **12...@xe2** or to keep it with **12...@e6** ?

Piece Trade Decision – Exercise 3



Is it better for White to trade the bishop with 24. 2xe4 or to keep it with 24.f3?

Piece Trade Decision – Exercise 2



Is it better for Black to trade the queen with **19...♥d6** or to keep it with **19...\$d6** ?

Piece Trade Decision – Exercise 4



Is it better for White to trade the queen with **18.**徵**xe7+** or to keep it with **18.營c4**?

Piece Trade Decision - Exercise 5



Is it better for Black to trade the queen with 22...資a4 or to keep it with 22...公e6 ?

Piece Trade Decision - Exercise 7



Is it better for Black to trade the queen for two rooks with 16...豐xa1 17.旦xa1 急xa1 or to keep the queen with 16...豐a3 ?

Piece Trade Decision - Exercise 6



Is it better for White to offer the queen trade with **20.**公**d2** or to avoid it with **20.營d1**?

Piece Trade Decision - Exercise 8



Is it better for White to trade the queen with 23.營g3 or to keep it with 23.公d4 ?

Piece Trade Decision - Exercise 9



Is it better for Black to trade the queen and win a pawn with **16... fxg4** or to keep it with **16...e4** ?

Piece Trade Decision - Exercise 11



Which piece-trade scenario is better:

- A) 15...⁽²⁾xd5 16.exd5 ⁽²⁾xd5; or
- B) 15... 🕯 xd5 16.exd5 🖄 xd5 ?

Piece Trade Decision - Exercise 10



Is it better for Black to offer a knight trade with **15**...公**ce4** or to play **15**...公**cd7** preparing a knight trade with 16...公e5 ?

Piece Trade Decision - Exercise 12



Is it better for White to trade the bishop with 23. 26 or to keep it with 23. 26 e4 ?

CHAPTER 5

Endgame Training

The two types of exercises in the Endgame Training chapter: Endgame Analysis and FBM Endgame, follow the formats you are already familiar with from the corresponding exercises in Chapters 3 (Tactical Analysis) and 4 (FBM Middlegame).

Endgame Analysis

By analogy with Tactical Analysis, your task will be to analyze two (or sometimes three) moves in a given position and determine which is the best. However, the difference is that the candidate moves in Endgame Analysis are not necessarily refutable as in the Tactics section. The main goal here is to apply your knowledge of endgame techniques and theoretical positions to produce the right solution. Please note that you can move the pieces as you attempt to solve the exercises.

As usual, you will earn points for your analytical work, as well as for providing the right move. The solution to every puzzle is summed up with an **ENDGAME LESSON**, a fundamental endgame guideline or technique worth remembering. In places, I will repeat critical endgame lessons to drive home the point.

We start with some warm-up examples to highlight two basic endgame principles.

Endgame Analysis - Example 1



White has a promising pawn mass in the center, and it is time to put

it to work. What is a better way to create a passed pawn: **34.fxg6 hxg6 35.e5** or **34.e5** at once? You are free to take 5 to 10 minutes to analyze this position by moving pieces on the board. After analysis, hopefully, you have arrived at the following conclusions:

34.fxg6+?! hxg6 35.e5

is worse than the alternative, because it allows Black to contain the e-pawn. You get one point if this is your preferred choice. You also get one additional point if you have analyzed any of the equalizing lines for Black below. Since White plans to go 🖄 d3-f4 next, the most natural reaction is: **35...g5**

However, it is also possible to allow 公f4 and still keep the balance. Both 35...單b7!? 36.公f4 fxe5 37.dxe5 g5 38.e6+ 當f6 39.皇d4+ 當f5 and the risky-looking 35...當e6!? 36.公f4+ 當f5 do the job.

The right move is **34.e5!** which forces

34...gxf5 35.④f4!

The key differences compared to the similar variation with 34.fxg6 hxg6 included are that:

1. White has won a tempo by forcing 34...gxf5; and

2. Black doesn't have the defense with ...g6-g5 anymore.

You get two points for choosing this line over the alternative and one extra credit point for analyzing any of the following lines:

35...fxe5 36.dxe5

White has a powerful passed pawn in the center. To add insult to injury, his bishop opens up, too, so after

36...**ģ**g7

(36...罩b7 doesn't help in view of 37.e6+ 當g7 38.皇d4+ 皇f6 39.②h5+), he gets his pawn back with

37.≜xb6 ≜b4 38.e6!+-

and White soon prevailed thanks to his passed pawn in Sethuraman-Lalith, Makati Ach 2018.

ENDGAME LESSON

One of the most basic endgame lessons is that passed pawns are crucial in the endgame. It is often worth sacrificing material to create a passed pawn, as the threat of pawn promotion forces the opponent to make concessions in giving up activity or material. The maximum score for this example is 5 points (a maximum 3 points for the 34.e5 line and a maximum 2 points for the 34.fxg6 line).

Endgame Analysis - Example 2



Despite the extra pawn, Black (to play) needs to tread carefully because the opponent has a dangerous outside passer. We have a choice between two logical moves, **33...含f6** and **33...谷c4**. This kind of endgame usually requires deeper analysis, because we need to determine whether either side can force or prevent a pawn promotion. Therefore, feel free to spend up to 20 minutes on it to ensure you have covered all bases. Your analysis should reveal that the correct continuation is **33....\$f6!**.

using the well-known 'shouldering' technique that limits the mobility of the opponent's king. There is very little wiggle room for the white king now.

Despite the obvious importance of time in endgames with pawn races, spending a tempo on this defensive move is well worth it, because it considerably slows down the opponent's passed pawn. You earn two points for this decision and one extra point for analyzing any of the following lines.

34.h5 必b5

The alternative 34... (2)c4 is just as good as the text.

35.ঔh7 ∕ີ∆d6!

Black is still in no rush to push his pawns. He wants to immobilize the opponent's passer first, and the rest will fall into place.

36.ģg8

36.h6 is met by 36...②f5!-+,



analysis diagram

completely neutralizing the pawn with the coordinated activity of our king and knight. After this, Black can start pushing his queenside pawns.

36...∕∆e4!

And Black gets a nearly winning position on account of the following variation: **37.h6 堂g6! 38.h7** 公**f6+**

On the other hand,

33...∕⊇c4?

would be a mistake (getting one point), because it allows White to get his king from the edge with **34.\u00e97**,

threatening to push the h-pawn all the way. You get *one* point for analyzing how this plays out in one of the following lines:

34...a5

Alternatively, Black can try to stop the pawn with 34...2d6 35.h5 2e8+, but 36.2g6! ensures that he cannot approach it with his king. White holds a draw after 36...a5 37.h6 2f6 38.2e5 a4 39.2c6+ 2e6 40.2d8+ 2e7.

35.h5 a4 36.h6 a3



Both pawns are about to be promoted. The ensuing queen endgame is drawish. **37.h7 a2 38.h8營 a1營 39.營f8+ 當d7=**

ENDGAME LESSON

The king's activity is another fundamental aspect of the endgame that sets it apart from the middlegame. Shouldering is an effective technique that allows us to limit the opponent's king's mobility while improving our own. The maximum score for this example is 5 points (maximum 3 points for the 33...\$f6 line and maximum 2 points for the 33...\$c4 line).

Find the Best Move in the Endgame

The final section in the book contains FBM Endgame exercises. As with the FBM Middlegame exercises, you will have a set of critical positions taken from a game between two club players. The only difference is that you will use your endgame skills to solve dilemmas:

FBM Endgame - Example 1



Which continuation is better, 34...fxe4 or 34...**Zd8** ?

FBM Endgame – Example 3



Which continuation is better, **38... 2a5** or **38... 2c5** ?

FBM Endgame - Example 2



Which continuation is better, **37... 2b6** or **37... Ia8**?

FBM Endgame – Example 4



Is it better for White to trade the bishops with **42. (b) 42. (c) 42. (c) 42. (c) 42. (c) 46 (c) (c) 45 (c) 45 (c) 46 (c) (c**