## Material Imbalance

Big goals are usually achieved through many small steps．Material imbalance can often prove deceptive if you fail to correctly assess ＂the bigger picture＂and just go for material gain or sacrifice， without detecting bigger goals．
－By GM Illia Nyzhnyk $\qquad$
A materialistic mindset is no stranger to many people，and while it is only natural to experience short－erm gains（and sometimes losses），there is usually a bigger goal along the road．Whether as a good thing，because it brings that individual closer to completing his／her goal），or spend their time and resources to accumulate knowledge and information（in which case losses are to be expected along the way），at the end of the day there is always something that all of us are striving for．In this regard，chess is not that much different，because the game allows for what I call a ＂goal breakdown＂in which big goals（e．g．checkmating，winning a queen，controlling the queenside，etc．）can usually be achieved by completing smaller tasks along the way． Hello fellow readers，and welcome once again to the series on positio evaluation，where we discover techniques that help us evaluate positions
correctly．This time，I would like to expand on our previous topic．Some of you may remember that previously we talked about piece activity as it relates to material gains and losses．This time，however，we will focus more on the actual material gains and losses themselves，and how they can help us achieve bigger goals．

## M．Amin Tabatabaei

Vincent Keymer
World Cup，Baku 2023


The first example in this article may look deceptively easy －we have a rook endgame to work with．At the same time， White has a serious problem with his king currently stuck on the edge of the board．One might say that this have a material advantage，as well as positional advantage to make progress．The only problem Black is facing right now is his inability to keep both pawns on important as the bigger goal，which is to win White＇s h5 pawn．

43．．．de6！The king is going on a walk of glory，trying to get to f4，but also keeping open the option of going after ite＇s queenside pawns．
．．．$e 6$ ？would have been a serious mistake，as now White plays 44．©d 1 ！，


46．${ }^{\text {tg}}$ g4，the ending is equal 44．mb8 tas Unfortunately，going after the queenside pawns immediately

 45． $\mathbf{5} \mathbf{6 7} 45$ ． $\mathbf{y x} \times 66$ would lead to the
position that Black is looking forward to－after 45．．．适f4 46．直h3 छg5
 घxxh5－＋ This endgame becomes much more straightforward，as Black now has two
connected passed pawns，which are connelly more than enough to win the game．


47．．．g6 Keymer＇s choice is definitely good enough to achieve victory，but I believe that the simple 47．．．dfa！？



 51．hxg6＂xg6－＋would have been a much easier way to win，as all Black has to do now is to use his rook to pick up both White＇s queenside pawns．



53．．．．＂g1？A kind of＂mistake＂that makes most people（including myself）go＂Yeah， as this morook endgames are so dificult Black＇s pawns ready to advance．
53 ．．．mh $5+$ ！was necessary，when after
 winning for Black．However，it is definitely not easy to understand that the way Black wins here is by bringing his king back to f5！
54．c4！Now，White creates a passed pawn of his own，but that is not the only counterplay that becomes available for him！ 54．．．g5＋



55．．b $\mathbf{b} 5$ ？？An extremely unfortunate miscalculation by White（or maybe he just did not realize how powerful his counterplay becomes！）．
55． $\begin{aligned} & \text { bh3！was a must，because after }\end{aligned}$

 ©e3 61 ．${ }^{\circ} c 4=$ does not do anything for Black＇s bigger goal of promoting the is no way for Black to keep the pawns moving，and if he tries to bring in his king to help，then White begins giving checks from the side： 57 ．．．df4 58．${ }^{\text {cic }} 4+$＋
 55．．．然h＋56． Black is simply faster with promoting his g－pawn．





64．．．．． $444+$ Good enough to win，but 64．．．．（dd 7 ！would have been a nice find that ends the game immediately，as the white ing has nowhere to run from the mating net．Fo 4994＋－＋
 4．
 ．． andgame． endgame pame． The previous example demonstrated a rather positional advantages which works great
for the purpose of accomplishing bigger goals．However，what happens when we have a material advantage，but also some immediate problems to deal with？

## Nataliya Buksa

| Nataliya Buksa | 2286 |
| :--- | ---: |
| Meruert Kamalidenova | 2162 |

World Women＇s Team Championship， Bydgoszcz 2023


49．me7？White is claiming that Black＇s e3 pawn is here main concern and needs to be stopped by any means possible． seems to have a bigger problem that she failed to recognize． 49．巴a5！would have been correct，helping White solve the problem of her king safety． $49 . .$. © b6！is essential for Black to make good
use of her knight．（49．．．e2？is premature， use of her knight．（49．．．e2？is premature，



 without controlling the white king＇s key



A） 51 ．gd3？would have been a logical move to make，but it appears that the rook does not belong on d3 at all．51．．．e2！52．gh3

 when White would have actually lost the game．）52．．．©e3 53．Ehh1 d3！54．cxd3
\＃xb4＋55．taa g $4 \times$ ，with annoying compensation strong，enough to give compensation，strong enough to
Black significant drawing chances．

B1）While analyzing this position for the
first time，I thought that White＇s most effective way of winning is to ignore Black＇s e3 pawn from now on，and focus on her own connected passed pawns on
the queenside，but I was wrong，because after 52．a4？！घg2！，a win for White becomes a much more difficult task



B2）52．sel！Ef4（Worse is $52 \ldots . . e 2$ ？！




B21）53．．．205 54．b5 9f3 55．b6 9xe1


 49．．．2b6！At this point，White has no real way of dealing with both knight jumps ．．．）d5 and ．．．$)^{2} \mathrm{c} 4$ ．The compensation Black obtains as a result of improving the knight is strong enough to survive $50 . c 3$ 50．c4 צig2
.. $\mathrm{D}_{5}$


51．登d7？？A blunder that could have cost White the game．

 56．${ }^{\text {gen }}$ ；
Or 51．，e5！？would have been enough for White to survive as well． $51 \ldots .$. ． $0 x 3+$ 52．\＃xc3 dxc3 53．要xe3






$\triangle$ Nataliya Buksa
62．．1．65 $5=$ ．
 Qxb4＋？It is not unusual for players to miss amazing opportunities based upon their previous experience during the game．In this case，Black decided to
simplify the position into something they simplify the position into something the knew they cannot possibly lose．However， Black already has an overwhelming advantage due to her passed pawns，and
the simple $53 . . .{ }^{\text {g }} 2+$ ！would overwhelm White＇s defense and guarantee a pawn promotion．


A）54．
 57． $\mathrm{me} 7 \mathrm{~d} 3-+$ ．

 2 8．Ec4 e2 59．ee7 e1－60．Exe1 घxe
 As it stands，Black does not have enough o win this rook endgame．


 65．


In the previous example，the Draw In the previous example，the extr material was meant to be used to help us
solve our immediate problems that are easily identifiable－king safety，piece activity，etc．

Pentala Harikrishna Dommaraju Gukesh Tata Steel India（rapid），Kolkata 2023

However，in the case of the following However，in the case of the following
example，White＇s main problem is rather example，White＇s main problem is rather
unique－Black＇s position is so solid that White simply does not have a clear target． Black＇s minor pieces are controlling all of the key squares that White might exploit to infiltrate Black＇s position，and the outpost on d5 will ensure that White＇s ${ }^{\text {wand }} \mathrm{b} 3$ is ineffective．


In the game，White tried to artificially create a target in Black＇s position by sacrificing one of his rooks．Unfortunately，that kind
of sacrifice significantly tilts the material scale in Black＇s favor and White ended up losing as a result of his risky decision．
 main idea is still to target f 7 ，but now it is actually possible to make the dreaded 21．．．${ }^{\text {gld }} 5$ move，with an unclear position． But 21．d5！was an amazing opportunity
missed by both players！This positional sacrifice ensures that White additionally opens the d－file，enabling him to apply pressure on any black piece positioned on that file．21．．．．घxd5（21．．． Q $^{2} x d 5$ ？？would




A） $22 \ldots .$. ．act 7 would have been a natural response，after which White would end






30．${ }^{\mathbf{m} x b 5 \pm . ~ T h i s ~ p o s i t i o n ~ i s ~ a l s o ~ d i f f i c u l t ~}$ to assess，but we can safely argue that White is the one trying to win at this

B） $22 .$. ． d d 4 ，forcing the white quee away for a move or two，would not make much difference．23．世4． $4+0$ 24．©cd1


 reaching an almost identical position to that in the 22．．． a c7 line．
of the nice 22 ． $\mathrm{m} 55!$（ $)$ xe 523 dxe5
 to turn back and switch to defensive mode but obviously this is not the kind of strategy White had in mind．After 23．置c3 息b4
 Black is the one pushing，as his minor pieces would be outperforming the queen． $23 . . .9 \times 1$ etc．And it took Black 30 or so moves to finish off his opponent，in a situation where White has been trying his best to survive，but by this point the material advantage was too much to deal with．Black won

As you can probably see the pattern，every example we have analyzed so far involved one of the sides having some kind of materia advantage．That side was able to use it
The next example is no excep
Black is currently up a pawn，but behind in development．

## Evgeniy Najer 2579

Samel Ter－Sahakan
World Rapid Team Championship Dusseldorf 2023


Moreover，White has the advantage of a bishop pair，and a relatively simple and straightforward plan of going g4－h4－g5， attacking the kingside．Since Black＇s king is still in the center，as well as his rook

being stuck on h8，it is safe to assume that Black would want the capability to castle at some point．However，as things stand right now，castling would likely becom he black king＇s death sentence after White breaks through with the pawn march． 16．．．Oc5？！saw Black attempting to preserve his extra pawn，but in light of his problems，a single extra pawn is definitel ot enough．
6．．．） 4 f4！，Black should have playe advantage at the cost of an extra paw
 and White has a really difficult time tryin o go for the same plan，since he no longe has his dark－squared bishop：20．g4？！断c 21．தff1 ©le4！$\mp$
7．0xc5


17．．．dxc5？！might have been the result of miscalculation，but Black＇s position was

$$
\begin{aligned}
& \text { not that great anyway. } \\
& \text { ne..Exc5 would }
\end{aligned}
$$

but here White can cove been sturdier， pawn advance，and Black does no for the good response to it．18．g4！h6 19．h4 d5
 xe2 24 ．世wxe2＋－

 White won shortly after
Clearly，Black＇s attempt to save material was suboptimal in the light of other，bigger problems that needed to be solved immediately

EX＝：PHSES

## FORSOLVINC

In an ideal world，we would always have extra material to help us solve bigger
or immediate problems．However， or immediate problems．However， oftentimes we do not really need to be up anything in order to utilize the it means having to sacrifice material． From this point on，I challenge you solve a few puzzles that closely relate to the topics of piece activity，king safety， and material imbalance！

Illia Nyzhnyk


Black to move



White to move
$D>$
$\qquad$


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