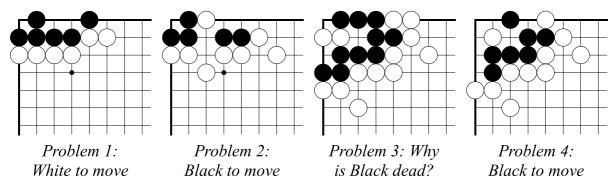
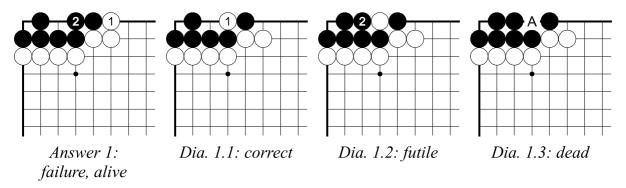
Problems

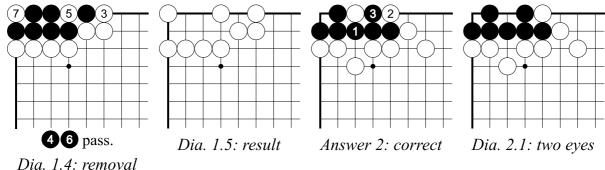


Answers



Dia. 1.2 + 1.4: During a game, the players would not play these moves, which prove the status of the black group after White 1 in Dia. 1.1.

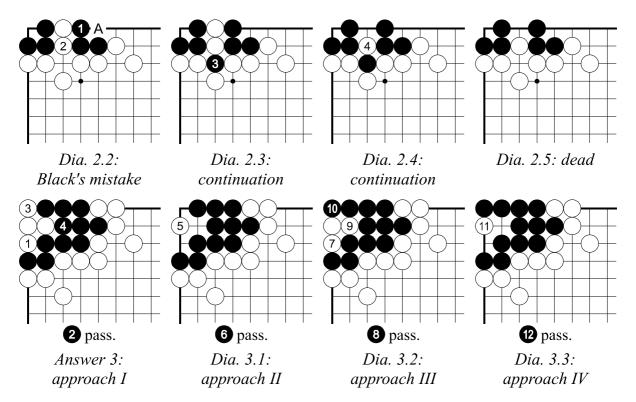
Dia. 1.3: The black group is dead because A is no eye.



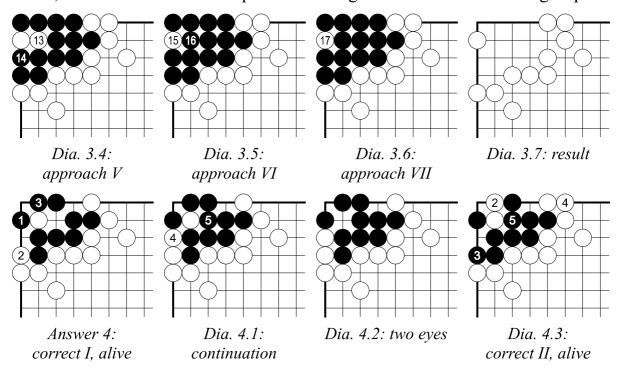
Dia. 1.4: In principle, White can remove the black group. This explains its death in *Dia. 1.3*.

Answer 2: At move 1, Black has a choice between the correct move 1 in Answer 2 and the wrong move 1 in Dia. 2.2. Black chooses the former because it results in the independent life of his group.

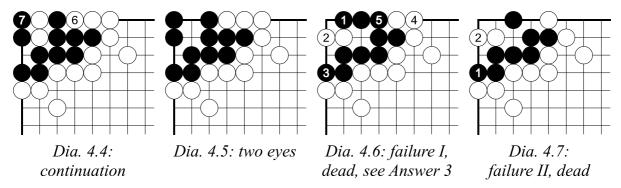
Dia. 2.2: Black 1 at A is refuted by White 2.



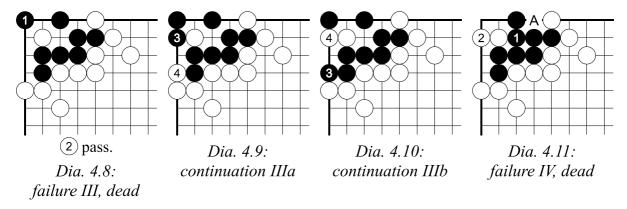
Answer 3 - Dia. 3.7: In Problem 3, the black group is dead because White can approach its liberties and eventually remove the black stones. White 5 and 11 must be played on the 'vital point' so that Black cannot partition the eyespace. White can vary most of his other moves but Black cannot prevent the permanent removal of his group. White would also remove any new black stones played in the upper left region in Dia. 3.7. During the sequence, Black passes to delay removal; he does not want to cooperate in filling the liberties of his own group.



Answer 4 - Dia. 4.5: Black 1 in Answer 4 is the only correct first move, which Black chooses. White can vary his reply 2 but the black group gets its two eyes. Since Black achieves independent life in each follow-up, we conclude that Black 1 guarantees two eyes for the black group.



Dia. 4.6 - 4.11: Black does not choose his first move as in these variations.



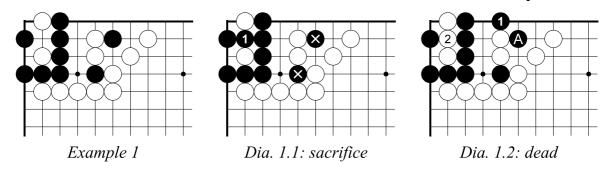
Dia. 4.8 - 4.10: Black 1 is so bad that White can reply with a pass and the black group is dead nevertheless. Black cannot build two eyes because White prevents a second eye (Dia. 4.9) or a partition of the eyespace (Dia. 4.10).

Dia. 4.11: Black 1 at A is also answered by White 2.

1.2 Sacrifice

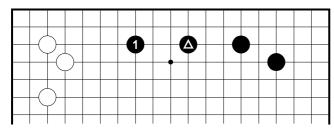
Trying to defend each stone is often disadvantageous. Sacrifices are necessary to enable efficient development of important strings.

A few non-essential stones can be sacrificed if necessary.

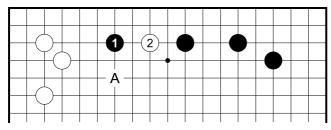


1.15 Strategy

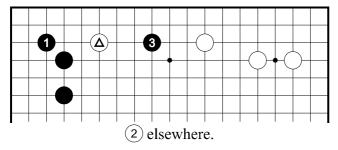
Usually, defend the life of a group by maintaining the connection of its important strings.



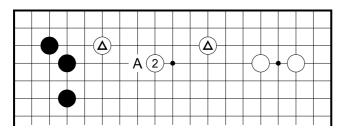
Example 1: maintained connection



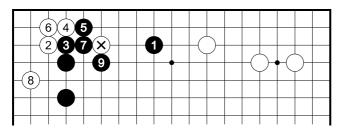
Dia. 1.1: Black's mistake



Example 2: White's mistake



Dia. 2.1: maintained connection



Dia. 2.2: corner life

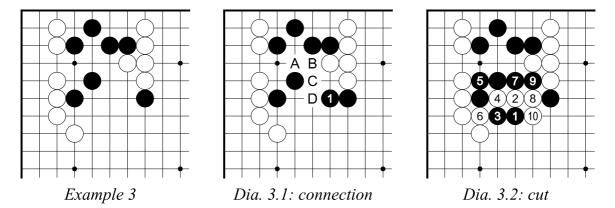
Example 1: Black 1 is the correct extension along the upper side because the played stone is connected to the adjacent, marked stone. Connection guarantees life.

Dia. 1.1: The mistake 1 extends too far and approaches the strong white group too closely so that White 2 cuts and attacks. Black unnecessarily creates a weak group with A as its only development direction.

Example 2: Before move 1, the marked stone had the equal options of developing it as in *Dia*. 2.1 or 2.2. After Black 1, White must avoid the mistake of playing elsewhere and failing to defend his important stone.

Dia. 2.1: White must play at 2 or A to maintain the connection between the marked stones. Thereby he protects the life of the left stone.

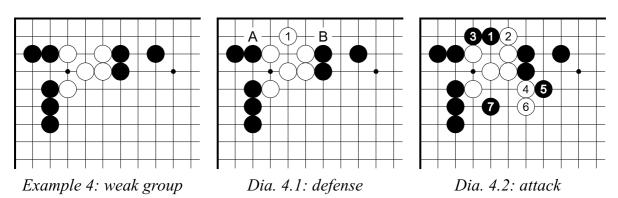
Dia. 2.2: It is White's second option to sacrifice the marked stone and live in the corner.



Dia. 3.1: In order to defend the life of the black group, Black must maintain the connection while moving the group to the center. Black 1 maintains the connection because White cannot cut by playing at A, B, C or D. The reader is invited to verify this by reading sequences arising from each of these moves.

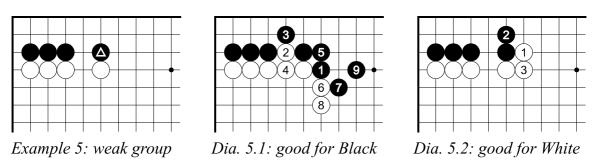
Dia. 3.2: Black must not be careless. Move 1 is his mistake because White cuts and kills. Instead of move 3, Black 4 - White 3 also fails. Black 5 at 6 is refuted by White 5. Black 7 at 8 or 9 does not help Black, either.

Defend your weak important groups.



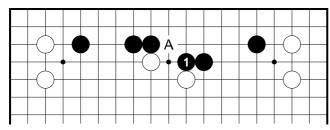
Dia. 4.1: White must defend his previously weak group. White 1 establishes its local life because White A or B can build the second eye.

Dia. 4.2: If White neglects defense in time, Black attacks the group so that it does not have any eyes. Black can profit from attacking the very weak group.



Example 5: The black group is weak because the marked stone is unstable. Immediately, Black must defend it as in Dia. 5.1 by creating strong shape and gain-

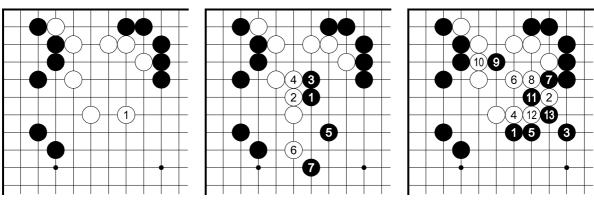
ing good access to the upper side and center. If White plays first (Dia. 5.2), he controls the center and upper side. The difference between the two diagrams is like day and night.



Example 6: defending two weak groups

Example 6: Before White cuts at A and launches a double attack on two weak black groups, Black defends by connecting them. The combined black group is strong.

Simplify by defending early and avoiding a complicated life and death problem.

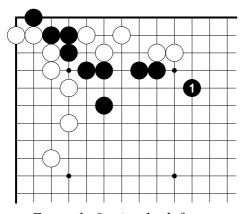


Example 7: simple defense

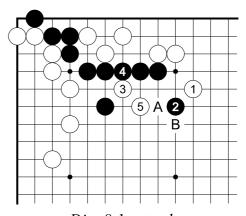
Dia. 7.1: attack I

Dia. 7.2: attack II

Example 7: White should reinforce his weak group in time so that he does not need to correctly predict all possible complicated attacks, such as those in Dia. 7.1 + 7.2. White 1 simplifies defense, creates good development potential in the center and prevents Black from dominating the center with very strong shape.



Example 8: simple defense

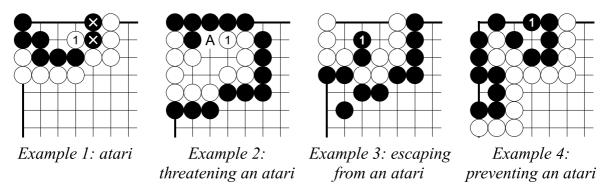


Dia. 8.1: attack

Example 8: Black must defend his important group before White can start a complicated fight (Dia. 8.1) and attack harshly. Instead of move 2, Black A is countered by White B.

2.3 Atari

An **atari** threatens immediate removal by reducing an opposing string to one liberty. A player can give an atari, *threaten* (to give) *an atari* (removal by a player's another two successive moves), *escape from an atari* (transforming an atari on a string into the opponent's necessity to approach at least two liberties before removal of the string) or *prevent* the opponent from giving *an atari* (before the move, the opponent can put a string in atari and, after the move, he cannot do so).

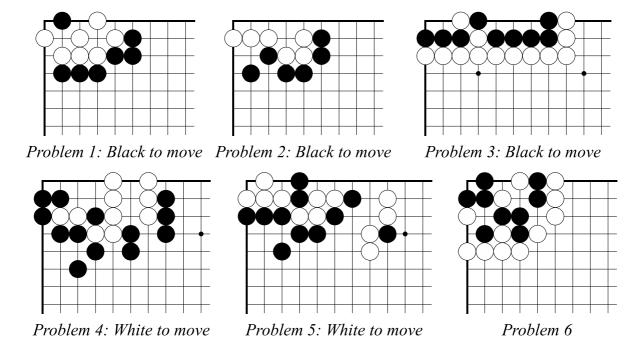


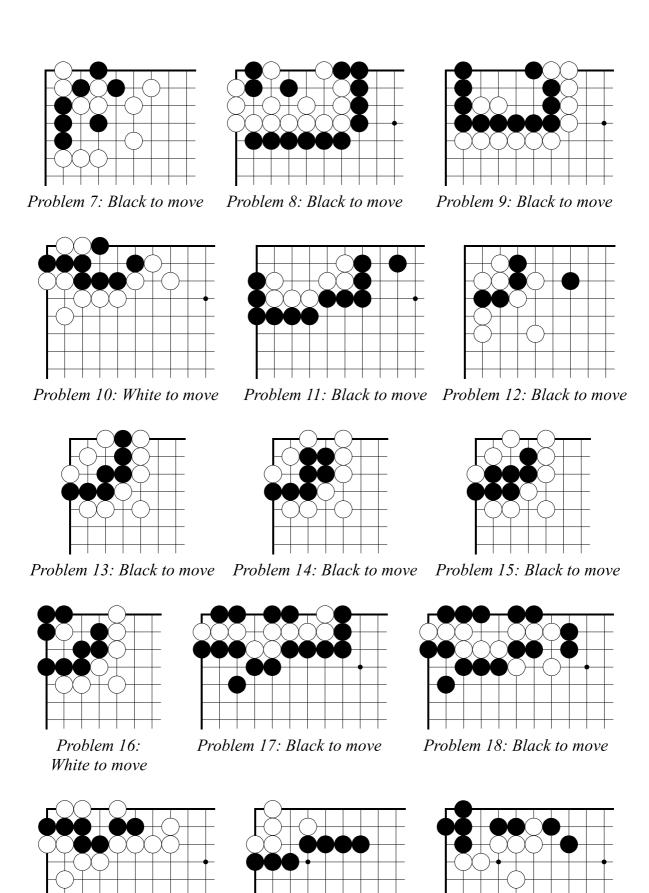
Example 1: White 1 puts the marked string in atari.

Example 2: White 1 threatens the atari A.

Example 4: Black 1 prevents the atari White 1.

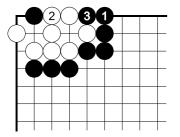
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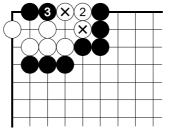


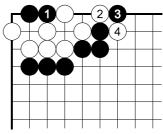


Problem 19: White to move Problem 20: Black to move Problem 21: Can White kill?

Answers





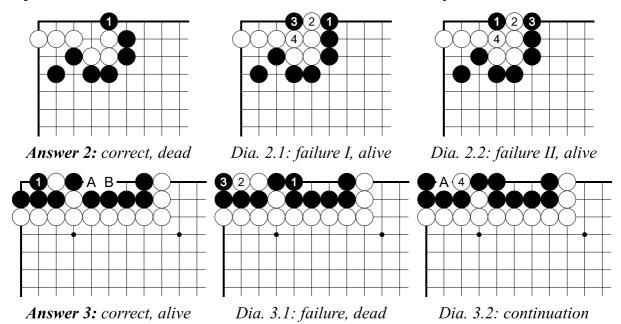


Answer 1: correct I, dead

Dia. 1.1: correct II, dead

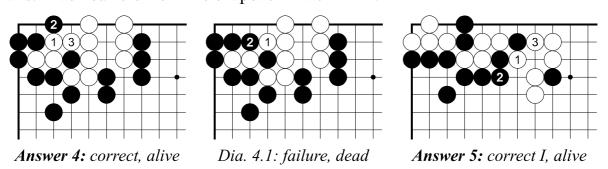
Dia. 1.2: failure, ko

Dia. 1.1: The marked white string can only escape from atari if White fills its adjacent intersection, which was meant to be the second eye.

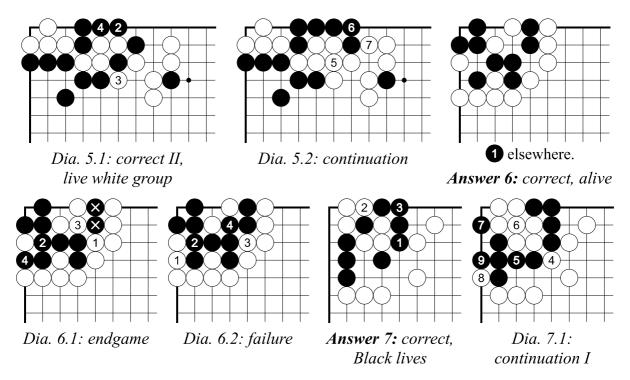


Answer 3: Black 1 escapes from atari. Next, White A - B or White B - A cannot kill the black group.

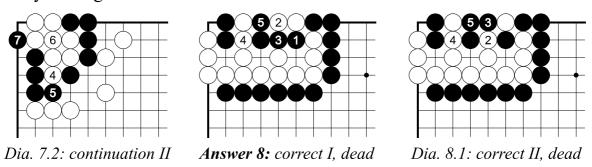
Dia. 3.1 + 3.2: Black 1 is another move that escapes from atari but this move fails. Black suffers from the snapback Black A - 4.



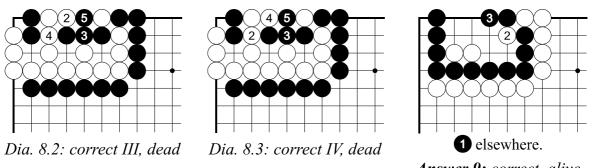
Answer 6: If Black starts during the middle game, he should play elsewhere because the core of his group lives. If White starts during the endgame, he can only remove the marked string in *Dia*. 6.1.



Dia. 6.1: Black 2 at 3 would be a self-atari. The marked string is caught in a liberty shortage.

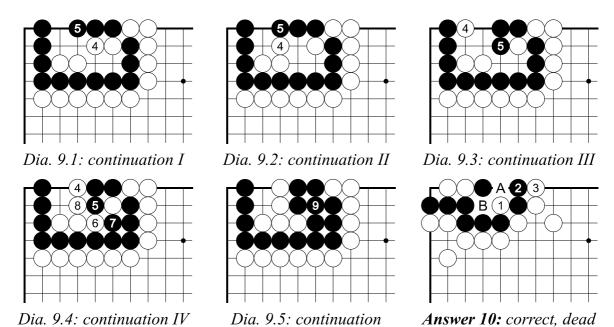


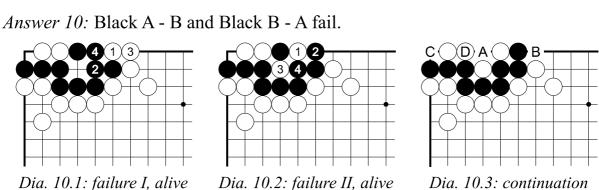
Answer 8 - Dia. 8.3: Black 1 kills the white group because each interesting reply 2 is White's failure. We must read every variation.



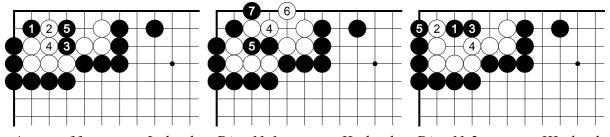
Answer 9: correct, alive

Answer 9 - Dia. 9.5: Black's play elsewhere is correct. After the obvious moves 2 and 3, we verify by reading each interesting move 4. Each of them fails for White so the play elsewhere, Black 1, succeeds for Black. Instead, if Black used his first move to reinforce his territory, this would be one point worse than passing because he would lose one territory intersection.





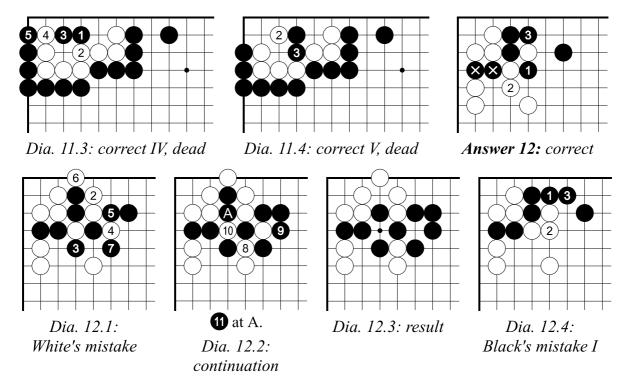
Dia. 10.3: White cannot kill with any of the sequences White A - C - A - D, White A - C - D - A or White B - A.



Answer 11: correct I, dead Dia. 11.1: correct II, dead Dia. 11.2: correct III, dead

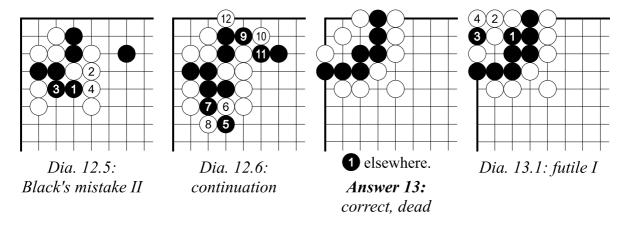
Answer 11 - Dia. 11.4: Black 1 in Answer 11, Dia. 11.2 or 11.3 kills. It is sufficient to read either Answer 11 + Dia. 11.1 or Dia. 11.2 or Dia. 11.3 + 11.4. However, Dia. 11.2 or 11.3 require subsequent reading, for which the reader is invited to verify why White does not have any continuation preventing Black from killing unconditionally. Black 1 in Answer 11 is the simplest correct first move because it reduces the eyespace and so eases the subsequent reading.

Answer 12: As the study of all variations reveals, Black cannot rescue the marked string or capture the white string in the corner. Therefore, he can only reduce and build eye shape for his upper group. Dia. 12.4 is worse for him.

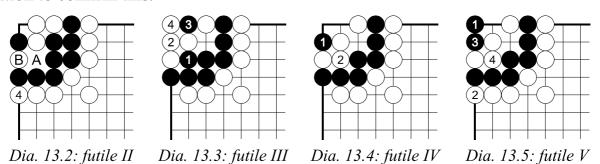


Dia. 12.1: White 6 at 7 is refuted easily by Black 6.

Dia. 12.1 - 12.3: White 2 in Dia. 12.1 helps Black.



Answer 13 - Dia. 13.5: Black should play elsewhere because his group is dead. He does not have any local reviving play. We must, however, read every variation to confirm this.



Dia. 13.2: Black A - White B is a snapback.