

D. School 441

Chapter 441 - Let the world first

In Beijing, a well-known star hotel, well-trained staff laid out the venue of the press conference. These are all the work they usually do, but today their speed is obviously slow; especially It was the young girls who arranged the flowers, and from time to time they secretly looked at the young man in the middle of the hall.

“Eh, look at him with a gentle look, is it completely different from the players who used to stay in our hotel before!” Taking the time to go to the bathroom, the little sisters seized all the time to gossip.

“People are not only stars, they are also the best scientists in the world; I think he is more handsome than those Korean stars!” This one started to stare at the star, left and right, and looked at no one. While making up, he whispered, “You said I would put a note on him later, would he call me?”

“Let the director see that you should pack up and get out!” The little sister quickly reminded, “Don’t be impulsive!”

“If I get close to him, I still work wool!” It always looks unsatisfactory when looking in the mirror, “Hey, but people like him must have experienced countless temptations, I am afraid they will be immune Alright! “

She never found an opportunity to build a note for Lu Qiu, as long as she stood in the lobby with a professional smile, she was always ready to serve the press conference.

“Finally, it’s catching up. The capital is really too crowded!” A fat reporter hurried over and stood looking around the aisle. 漂し言し格酔心章 has uploaded

“Sir, are you here to attend the press conference? The check-in is here, please follow me!” The hotel staff hurried forward to guide him.

“Oh, thank you!” The fat reporter was shouted with such a soft voice, half of his body was crisp, and he reacted for a moment, then went to the sign-in place to sign his name and unit; after signing, he looked at the press release Before the meeting started, I glanced up at my position on the book, “Oh, the old Liu of” Go “, I knew I would definitely meet this guy. The little stones of” Chess “are

all acquaintances. ; Well? Why did the “Science and Technology News” come here? And the “Youth News”, why did it come here? “

“This is your first time to participate in Professor Lu’s press conference?” Feng Hongqi, who checked in next to him, raised his head. When he held a press conference for Lu Qiuqian, the cross-border media mashup style had long been got used to.

“Yes, brother, you are from” Sports Weekly “!” Chu Fei, the fat reporter, saw Feng Hongqi’s unit. The comprehensive sports media of “Sports Weekly” is more influential than the Go media he worked for; But were n’t Da Li and Xiao Bao responsible for the Go visit before the “Sports Weekly”? “Why didn’t Li and Xiaobao come this time?”

“They are in the back, and they will be there in a while; I came because I interviewed Professor Lu before, so I followed them!” They were all doing this business, and they knew each other in three or two sentences, “... When I used to attend Professor Lu ’s press conference, reporters from science, technology, football, and basketball rushed together. This time it ’s a small scene; who made Professor Lu so powerful in that field! ”

Slightly chat, Chu Fei deepened his understanding of the protagonist of this press conference; it didn’t take long for the press conference to officially start, and Lu Qiuqian reconciled to sit on the stage.

“Thank you friends from the media for taking the time to participate in this press conference ... Oh, and all the friends in the Go world.” Lu Qiuqian looked at several Chinese chess players also entered the lobby. It seems to be holding back the problem; after greeting him, he began to enter the topic, “First of all, I want to introduce you to the protagonist of this press conference-Professor Xie Ke, director of the Xihe Project Artificial Intelligence Laboratory, the big ***** is Professor Xie Ke led the team to develop it. Below is a brief introduction to Professor Xie Ke to everyone.

“Dear friends in the media and Hua Guoqi Academy, everyone, I am Xie Ke; I believe everyone still has doubts about whether the big chess ***** is artificial intelligence or a real person, then I will show some evidence first ...” A video was displayed on the projection screen of Xie, and Xie Ke showed them the supercomputer carrying the big chess slag, the big chess slag, and the video of Gu Li’s game, which dispelled their last doubt.

“This artificial intelligence was independently developed by our experimental group under the guidance of Professor Lv Qiuqian. According to the test some time ago, it has been able to reach the level of top professional chess players. This is a great breakthrough in the entire artificial intelligence field. “Then Xie Ke showed a series of complicated formulas and tables,” ... It

mainly uses the optimized Montacarlo tree search to choose the one with the best grasp from the left and right possible choices. may.....”

This section of Xie Ke ’s interpretation of the operation principle of the big chess ***** except for a few professional journalists in the science and technology media, everyone else can hear Yunshan foggy around and be at a loss.

“Okay, I said here about the interpretation of the principle of the big chess slag. If you are interested, you can browse for a more detailed discussion in the next issue of” nature “! Below is the free question time!” The boring professional questions are finally over.

Hearing this sentence, the reporters rejuvenated and raised their hands one after another; “Let the reporters of the Go media ask questions first!” Lu Qiuqian ordered a reporter with a famous Go journal badge on her chest.

“Hello, Professor Lu and Professor Xie, how do you think about the impact of this big chess ***** over Gu Li on professional Go?” The first question is quite satisfactory.

“I don’t think this game has too much impact on professional Go. At the time, the defeat of Kasparov by Deep Blue did not have an adverse impact on chess. The same is true this time!” Lu Qiuqian replied.

“What is the difference between this big ***** victory over Gu Li and the previous dark blue victory over Kasparov?”

“Dark Blue uses exhaustive methods to list all the possibilities, which is more than enough to deal with chess; and it is well known that Go is almost impossible to exhaust; the big ***** has joined the judgment of the situation, joined the value network, and can improve through deep learning. For yourself; the last victory of Deep Blue was the victory of computing power, and the victory of the big chessboard this time was the victory of artificial intelligence! “

“Hello, I am a reporter from South Korea. What is the strength of the big chess ***** now? Will it continue to play against professional chess players in the future? Will it accept the challenge of Korean chess players?”

“I don’t think there is much need to continue the challenge! Because through continuous self-match practice, the power of the big chess ***** has reached the level that will make the world first. Unless it is multiplayer cooperation, the human chess player is almost not May win! “

Chapter 442 - Sky-to-game fee

Giving first is the term in Go, which means letting the opponent take the first move in black. Due to the great advantage of the first move in the Go layout, it is generally only given to opponents who are not as powerful as their opponents.

Let Tian Xia first talk about Wu Qingyuan, the sage of the Showa Chess. From 1939 to 1956, Wu Qingyuan played Kiwano, Hashimoto Utaro, Iwamoto Kaoru, Fujisawa Konosuke, Sakata Rakao, Takagawa in 1939 to 1956. Ge and other neon contemporary strongest players have all been downgraded and become the first person in the world, known as “Dare to let the world come first”!

Anyone familiar with the chess world knows that those famous chess players all have their own loud nicknames, such as Stone Buddha, Cao Yanzi, the invincible Nie Jiuduan of the first fifty players, etc., but these nicknames are not as good as Wu Qingyuan's. “Dare to let the world be first” loud, and now Lv Qiuqian uses this sentence to describe the chess power of the big chess slag, which means that like the master Wu Qingyuan, he has already led all contemporary chess players by an era.

The technology reporters are unknown, so the Go reporters turned upside down. They looked back at the professional players who were present at the same time; Gu Li frowned and recalled the changes in the strength of the big chess pieces in these five games. He could still find a chance to win at the beginning, but by the last set, he could not guess the opponent's intentions.

Gu Li shook his head bitterly, admitting Lu Qiuqian's evaluation of the big chess ***** “dare to let the world go first”. Although he is not the first chess player to play today, there is not much difference from Li Shiya, who is currently in good standing. Since the big ***** can abuse himself, it is not a matter of defeating Li Shiya. This title is indeed deserved.

“However, it has only played against Chinese players! It hasn't played against our Korean players. It can't be said that it is already invincible!” The national pride of the Korean people broke out again, and the reporter was scared. Issued a challenge, “It can only deserve this title if it defeats two Li Jiuduan and Cao Jiuduan!”

The chess players looked at Lu Qiuqian in unison, wondering if he would challenge South Korean players; Lu Qiuqian shook his head with a smile, “The big scum is nothing more than Xi and the planned artificial intelligence laboratory. We have been satisfied with the initial mission and the current results. The previous game has tested its level, and there is no need to play the game again! There are other studies in our laboratory that need to be carried out. “

“Don’t you dare to accept the challenge? Do you have any secrets in the previous game?” The South Korean reporter blurted out without thinking.

“You let Li Shiya look at these games and see how many victories he can get in my position?” This sentence is not only a suspicion of the artificial intelligence laboratory, but also a slander of Gu Li’s professional ethics; Gu Li couldn’t help but refute sharply.

South Korean reporters also realized that they were wrong. Hurry up and bow to apologize, “Sorry, I said something wrong, please forgive me! But be sure to let the big chess ***** and our South Korean masters match!”

“Every game of the big chess game requires a high cost! If you are willing to pay for its running costs, it is not impossible to continue the game!” The current computer speed can not be compared with the Alfa dog era . Therefore, the running cost of Big Chess is much higher than that of Alfa Dog; since the test results have achieved their purpose, there is no need to waste money on it.

“There are many entrepreneurs in Korea who love Go! I think someone will be willing to pay the game fee for the big game!” The Korean reporter does not seem to realize how big the money is, “Please also tell us a number, we Definitely will do it! “

“Every game of Big Chess will cost 150,000 yuan in electricity, 50,000 yuan in hardware maintenance, 80,000 yuan in software maintenance, 320,000 yuan in depreciation, 60,000 yuan in manpower, and a total of 660,000 yuan. This has not yet calculated what we can achieve if we use these resources in other research. If we add this fund, we will at least double it again; if you are willing to bear this cost, we do n’t mind letting go. Slag played a few more games! “Lv Qiujian simply calculated the running cost of the big chess slag.

This number holds back Korean reporters for a long time. In addition to the prize money, it is common for Go players to provide match fees for participating riders; but this match fee generally ranges from hundreds to thousands of RMB, he It is calculated according to this standard, but I did not expect that the operating cost of the big chess ***** is so high.

“Oh, the cost of playing these five games is higher than your income last year! There is no loss in these five games!” Zhou Heyang touched Gu Li with his arm and said.

In the China Forbes celebrity list released this year, Gu Li ranked first in the Go world with an income of 4.7 million yuan, but his real income is much lower than this number; It cost 3.3 million yuan, much higher than his income last year.

“Well, I don’t think you are losing money when you say that! Cooperating with me, I am playing chess with a bunch of gold bars!” Gu Li was relieved. It took more than three million yuan to play five games in a light game. If he had calculated the cost of learning chess until now, he would buy chess pieces, chessboards and teachers from a young age. The board and lodging of the game add up to millions, and the learning cost of the big chess ***** does not know how many times it is higher than oneself, and how much money will be paid back. Losing so much money also makes sense.

“Sai Weng lost his wits, but you lost this time, but after playing five games with it, your chess power will definitely rise a lot! And before you were famous in the Go circle, not many people outside knew you ; It ’s different now, maybe an advertiser will be looking for it right away. It seems that you will be at the top of the Go revenue list again this year! “Seeing that his depression was relieved, Zhou Heyang then enlightened him.

Calculating the number of prizes in several major Go World Championships, the Samsung Cup ’s winning prize is 300 million won, and the lg is won by 250 million won. It sounds a lot, but it is more than two million yuan in RMB, which is not as good as the big five. The cost of chess is high.

Seeing that the South Korean reporter stopped speaking, Lv Qiujian ordered the next reporter. This time he took care of his old acquaintance Feng Hongqi. He saw that he ran from the United States to Europe and then followed him back home from Europe. And for never giving yourself trouble, Yu Qingli also has to take care of it!

“Professor Lu, congratulations on your great achievements in a new field soon after returning to China.” Congratulations to Yihong Feng Hongqi for asking his own question, “Then I want to ask is the current level of artificial intelligence in the big chess ***** Compared with the international level, at what level? “

Chapter 443 - I am authority

“Currently there are many different branches of artificial intelligence research in the world, so it is difficult to make a longitudinal comparison; this is like discussing who is the best chess player Kasparov and Li Shifol” Lu Qiujian gave an example first Named the loophole in Feng Hongqi’s question, and then said, “However, in the fields of optimization and application of Monte Carlo trees, fuzzy search, and deep learning, Daqi has already passed other domestic and foreign counterparts and is at the world’s leading level! “

After Kasparov was defeated by Deep Blue in the bombing of this frypot, many international computer organizations began to conduct research on Go computers, such as Google, Neon, and Treasure Island, etc .; A computer capable of defeating professional chess players; so after the true

identity of the big chess ***** was revealed, the keen reporters were aware of the meaning, but they were surprised by the affirmative reply from the parties.

“So, Professor Lu, which area will you continue to lead the artificial intelligence laboratory to start research? Is it chess and other chess research, or mahjong, e-sports and other fields?” Another reporter asked.

“First of all, I would like to emphasize again that the person in charge of Xihe’s planned artificial intelligence laboratory is Professor Xie Ke instead of me. The specific research work is done by the team led by Professor Xie Ke! I will only provide some help!” It’s not about personally investing in artificial intelligence research.

Then he began to answer the opponent’s question, “Go is the most complicated of all chess games, so after Go is overcome by artificial intelligence, there is no need to conduct research on other chess games; as for Mahjong? It is very different from Go. Mahjong is an incomplete information game. It has a large number of random components. It cannot purely quantify the ability of artificial intelligence. We currently have no plans to get involved in this field. “

“Professor Lu, may I ask”

“This question is too professional, I suggest you better go to the next issue of nature to find the answer. Then there is a more detailed discussion above”

“Professor Lu, the big ***** has defeated professional chess players. Does it mean that the fortress of human wisdom is finally broken by the computer, will Go gradually decline?”

“I have answered this question just now. It is inevitable for artificial intelligence to defeat Go professional players. With the development of natural sciences, Go will eventually be captured by computers. Even if there is no big chess residue, there are products from Google, Microsoft and other companies. ; But this does not mean the decline of Go. In fact, this game also provides a good opportunity for the promotion of Go! I believe there will be many people who are interested in Go because of this event and thus join the players. Come in the ranks; at the same time, when the cost of the big chess ***** falls to the average person’s ability in the future, it will be much more convenient for Go enthusiasts to learn chess. “

“In addition, the defeat of professional chess players by Big Chess does not mean that human intelligence has been overtaken by computers; Big Chess only has a good performance in the field of Go, it does not mean that it will be so good in other fields; There are still many problems in the fields of language understanding, image understanding, reasoning, and decision-making; the

emergence of the big chess residue is indeed a great advancement of artificial intelligence, but this progress is not as far as you think! “

A few more questions were answered, and a female reporter from the Pearl stood up and asked in Mandarin with a slight local accent, “Professor Lu, Professor Henry Mitchell, an artificial intelligence expert from the United States, once said that Go is unusable. The exhaustive method lists all possibilities. It is impossible for a computer to defeat a professional chess player! How do you evaluate Professor Mitchell’s view? The big chess ***** really defeated professional chess in a fair game Hand? “

Well, I understand what you mean. The undemocratic scientific achievements must be fake. Lu Qiuqian glanced at her work certificate. It is really a pearl newspaper with a more subtle position.

There is nothing to say about this kind of person. If you explain patiently, she will only interpret it according to her ideas. Lu Qiuqian’s tone has also cooled down. “With regard to the fairness of the game, our professional chess players have just It shows the attitude. I do n’t want to say much. In addition, Professor Mitchell’s opinion is only his personal opinion and does not represent objective facts. ”

“Professor Henry Mitchell is an authority in the field of artificial intelligence. I think his words are still very credible!” The other party really put on an attitude that I only believe in what I am willing to believe. Stubbornly refused to sit down with Lu Qiuqian, trying to see a trace of confusion from his expression.

Yo, it turns out that your democratic region also pays attention to authority! Lu Qiuqian actually understands her mood. Living in a declining city, they look at the mood in the Mainland as if it were a broken mansion door seeing their poor relatives gradually passing by. Always try to find a certain sense of superiority to cover up his loss.

“Authority does not necessarily mean correct, and the authority in the past will not always be the authority! I believe that Professor Mitchell will read his opinion after reading our team’s article on nature, and admit that the authority in this field has become Chinese! “In other words, the time of naturalization of your professor Mitchell is over, and now I am the biggest authority in this field!

The female reporter opened her mouth a few times Finally she closed her mouth and sat down. She made up her mind to interview Professor Henry Mitchell after the next issue of the journal, Listen to his views; perhaps the strict nature of the reviewer will not even publish their articles?

Soon the two-hour news conference came to an end. The reporters on the scene hurried to prepare various press releases with satisfaction. They will explain the significance of this event from different angles such as Go and technology.

The professional chess players didn't leave, and it seemed that there was something to find Lu Qiuqian. "It's really embarrassing. At the beginning of the experiment, we were worried that you would not accept the reality of playing against the computer, so we concealed the facts!" Lu Qiuqian said hello before building.

"You are thinking too much. This game has helped me a lot. I want to wait for me to thoroughly understand these games, and I will definitely get better results in the future games!" Gu Li's words were cancelled. The team's concerns, it seems that he has completely come out of the shadow of failure, "But if I knew earlier that it was a computer that played chess with me instead of a real person, I would definitely change my strategy. I guess there is still hope to win one or two The game! "

Chapter 444 - Come on together

Gu Li actually said that there is a certain truth. The strength of artificial intelligence lies in calculation. When he plays, he still plays according to the fact that the other party is a real person. In the calculation, he has been fighting with the big chess for a long time, so he will only play in five battles. Defeat; if he knows that the opposite is artificial intelligence, then he will definitely change his strategy, so it is not impossible to win a victory or two. ○

"Xiao Lu! This big chess ***** really needs such a high operating cost?" Nie Jiudian was a person who often went to Haizi and the chief designer to play bridge, so it was relatively casual to talk to Lu Qiuqian; in the study of Go And playing against masters is one of the fastest growing ways. If you can get this thing to Huaguo Chess Academy, then the players of Huaguo will sweep the world!

"Really so much, this has not yet calculated how much value can be created by using these resources elsewhere!" Lu Qiuqian's answer made him quite regret, this cost can not be afforded by Hua Guoqi Academy anyway.

"However, with the rapid development of science and technology, its cost may be reduced to a range that everyone can afford in less than a few years!" Lu Qiuqian said comfortingly.

This press conference ended like this. With the reports of these reporters, the news that artificial intelligence defeated the top professional Go players spread all over the world.

In South Korea, chess fans have pointed out that the best Go player in the world is currently in South Korea. The victory of the big **** against Gu Li does not mean that its strength has completely overwhelmed all players. He must defeat Li Shifo and Li Shiya.

“Its strength is indeed outstanding, but we humans are not without the chance to win. Now I know that the opponent Gu Li was facing was artificial intelligence. If I had the opportunity to play against him, I would definitely not choose the same as Gu Li. Tactics. “Li Shiya seemed quite confident in the follow-up interview,” I think I still have a chance to win! “

“The feeling of playing against artificial intelligence must be very special? If I have the opportunity, I would like to try it too! Unfortunately, the game fee is too high!” Li Shifo, who has ruled the chess world for more than ten years, seems to be a bit tempted.

So the Korean chess fans began to think of various ways to solve the problem of the big **** playing fee. A senior chess fan who began to pay attention to Li Shifo from his debut began advocating donations from chess fans to make up for this fee. In order to expand his influence, he also resorted to the favorite tricks of the Koreans. He came to the gate of the Korean chess court with a serious face, took out his knife and cut his small ... finger, and shouted to let us Koreans defend the last of humanity. Dignity, such sensational words come.

Directly points to the g point of Koreans. I have to say that South Korea is actually a very hard country. His economic strength and military strength are among the best in the world. However, all the neighboring countries are not vegetarian. There are five gangsters such as China and Lucia. The second economic power in the world, such as Neon, only has a brother who is behind his own or his own family. Not only can he not easily provoke, but also to guard against young brothers to play rogues.

This has developed a Korean character that is proud and inferior. Now that there is such an opportunity to show the strength of Koreans, how can they not be excited!

Quickly. What the chess fan said about letting the Koreans defend the last dignity of mankind immediately became the front page headlines of the major newspapers the next day. The number of donations rose linearly. There were both gray-haired elderly people and teeth. Qi's naive children ... Chicken soup stream authors have said that this is another good material for cooking chicken soup!

It did n't take long, and hundreds of millions of won in game fees was enough. The Korean Chess Institute immediately challenged Xihe Plan Artificial Intelligence Laboratory to invite Daqi Slag to play against their new generation of South Korean king Li Shiya.

This is how Lu Qiuqian replied. “Although you are willing to pay the running cost of the big chess slag, we also have other scientific research plans to study; and I think even if this big chess **** defeats Li Shiya. Will you still let Li Shifu continue to challenge? We have no time to stay with you. Play. So just do it! You guys get together! “

“What do you mean?” The South Korean reporter who asked the question last time asked him, as a reporter and also as a middleman inviting big chess slag.

“I mean it’s too time-consuming to play one by one, so let the masters of your Korean chess academy play together! The two Li Jiuduan and Cao Jiuduan can discuss and play chess together, our big chess pieces are all connected Now! If this does not defeat the big chess slag, then this will be its last game! “Lu Qiuqian said.

Go is a smart game. The two masters will surely find the opponent’s loopholes easier than one master, not to mention Lu Qiuqian’s intention this time to let Da Qizhan independently challenge all the masters’ teams in Korea.

With this remark, the South Korean reporter was suddenly excited and red-eared. In his opinion, this was an insult to Korean players, but no matter what he said, Lu Qiuqian did not change his decision.

The news came back to South Korea. Immediately caused an uproar, pride, arrogance, ignorance of the heights and other words were all given to Lu Qiuqian. However, he did not read Korean newspapers, had no effect on him.

“So let’s promise him first!” Li Shifu’s teacher Cao Jiuduan made a decision. “In the first game, we will play a chess player first, and the others will study the game next to it. Naturally, it is best for this chess player to win. I found that our players can’t support it anymore, and others will help him! “

Cao Jiuduan’s way is more reasonable. Even if you play chess in cooperation, you should have a leader. Otherwise, if you say something to me, it will be impossible to play chess! Now, a master is the main commander, and others make up for leaks and make suggestions. The effect is much better.

“So, let me come in the first game!” Li Shiya, who is currently in the limelight, stood up. Li Shifu has grown old and his physical strength and reaction have declined. Now he has become the first chess player in South Korea.

“Hmm.” Li Shifu is still the same as the ancient well, and he accepted it with a bang.

“Then Li Shiya came forward to play against it, I, Shifo, Zhehan, Yongxun, Changhe ... a few of us as Shiya’s assistants came up with ideas and suggestions!” Among them, there are not only decades old seniors, but also a fresh force in the year of playing. The essence of the three generations of Korean chess schools of old, middle and young people are included. If you still lose chess in this way, then it is really nothing. It can be said.

It was decided that they passed the decision to Lu Qiujian, and Lu Qiujian also accepted it happily. The two parties agreed to officially start the first game three days later.

Chapter 445 - Hematemesis

In order to facilitate the live broadcast, the game was changed to offline, and the location was set in the game room of the Huaguo Chess Academy; South Korea sent its own chess players Li Shiqiao, Cao Jiuduan, Liu Jiuduan, two seniors, and Li Shifu. The first person in the chess world, together with young chess players such as Cui Zhehan and Park Yongxun, stayed in the adjacent observation room as a staff. A large chess board was placed on the wall of the observation room, and the staff placed the current situation on the chess board. , While analyzing the changes in the situation, put forward the possible position of the big chess ***** next move, and deduced this. 『≤

It is much easier to solve the problem of Li Ke, sitting opposite Li Shiya. He only needs to place the chess pieces on the chessboard according to the position of the big chess pieces shown on the laptop next to him.

Originally, Xie Ke was going to let Lu Qiujian come forward to play against Li Shiya, but Lu Qiujian felt that if he went to play chess, he might make a different choice from the big chess slag, which would make him feel awkward, so he took the limelight this time. Gave him the opportunity; he and Gu Li in the observation room on the other side. Nie Jiuduan and other Chinese chess players chatted.

“Huh, this is probably the ugliest game I’ve ever seen!” Nie Jiuduan looked at Xie Ke’s clumsy expression and couldn’t help but slap.

Go is a quaint game, where the offspring is light and elegant. Generally, the index finger and the ***** are used to hold the chess piece up and down. The ***** is on the top, and the index finger is on the bottom. Then, there is a clean point on the chessboard; The same three fingers hold the pawn, and carefully put it, I am afraid that the ***** will leak out of my hand, not to mention how awkward it is, it is really not in harmony with the elegant style of Go! No wonder Nie Jiuduan complained like this.

“It doesn’t matter if the posture is ugly, it works. You can see that Li Shiya’s face is much uglier now than at the beginning!” Gu Li said with a smile pointing at the big screen of the live broadcast.

Just started more than ten hands, Li Shiya started the long exam, apparently encountered a problem; “Its chess power is improved compared with Gu Li!” Li Shifo said solemnly, and then walked to the big chess board. I took out a piece and slapped it on the chessboard, and then put out a few pieces to explain the next change of this hand, “I think this hand should be played here, so as to prevent the upper lever from being pulled. Wrench will not lose control of the central head ... “

“Well, it’s really a good game!” Cao Jiudian patted the fan for a while, and saw that other people had no objections. “Give the chess score to Shiya!” They originally wanted Li Shiya to finish the game alone, but It is no longer possible to take action now.

Piao Yongxun quickly traced this hand on the blank chess score, and also marked other changes demonstrated by the stone Buddha, and then hurriedly went into the game room and handed the chess score to Li Shiya.

“Oh. I gained a lot of knowledge today!” Nie Jiudian, the scene of the move in this kind of game, was also seen for the first time. “This time Xiao Li can take a breath!”

“Beautiful! This chess is definitely Li Shifo’s idea!” Gu Li not only cheered for Li Shiya’s hand, and then thought about the possible response of the big chess slag, he slapped the chess pieces on the chessboard, “You said Will the big chess **** fly out of it, or will it rush one? But it seems that any response will not stop Li Shiya’s momentum? “

“Probably it will be here!” Lu Qiuqian walked to the chessboard and dropped a chess piece.

“Magic hand!” Lu Qiuqian’s chess piece fell in a position Gu Li had never thought of. This hand was a little abrupt at first glance, but careful thought interrupted Li Shiya’s possible offensive next, and his advantage returned to his own hands ; Gu Li made several changes in a row. None can reverse the situation.

“He Yang, you have been playing chess recently! You can’t play this hand a month ago!” Gu Li regarded the man who was the son of Zhou He Yang as he turned back and planned to pat his shoulder.

When he saw that there was only Lu Qiuqian besides himself before the chessboard, he was stunned. It took a while to guess and asked, “Professor Lu, are you playing chess for Zhou Heyang?”

“Professor Lu, I don’t see that you are a master!” At this time, other people also reacted. Nie Jiuduan walked up and down and looked at Lu Qiuqian with his eyes wide open, “I’ve never expected this to tell the truth!”

Even if it wasn’t before, it has been so long since the artificial intelligence program. It’s almost time to think about it too; Lu Qiuqian said haha in his mouth, “I did it casually, I didn’t think so much!”

“It’s more valuable to play casually than after hard thinking! You can point to the point with one hand, indicating that your inspiration for Go is first-class!” Nie Jiuduan still refused to stop.

“Well, Li Shiya’s hand is not bad!” Lu Qiuqian quickly digressed the topic, and easily diverted their attention.

With the progress of the chess game, the speed of Li Shiya’s falling is getting slower and slower, and the sound of argument in the observation room next door is getting smaller and smaller. In addition to Li Shifo mentoring and thinking about the chessboard, everyone else rubbed the temple and sat aside. They have given up their participation. Li Shiya once again turned his attention to the observation room, but after a long time, there was no chess record in it; did Senior Cao and Senior Stone Buddha not understand? Can I only rely on me now? Li Shiya put away her thoughts and condensed herself to re-observe the situation.

In the past, the black and white chess game in his eyes has become blurred. The opponent’s white chess has turned into a fierce dragon on the chessboard. His black chess is scattered and gradually out of support under its attack

Where is the way out? Does this game really have to admit defeat in the middle? Impossible, there must be hope! Li Shiya’s eyes are almost on the chessboard.

“The world’s situation is wrong!” Liu Jiuduan said solemnly, “I’m afraid his mind will be greatly damaged in this way! This game is not as good as we admit defeat!”

In South Korea, countless chess fans sitting in front of the TV watched Li Shiya look like this, listening to the low-sounding words of the professional chess player who served as a narrator, and also raised their hearts to their throats; they all prayed to their gods God, Lord Buddha, bless Li Shiya to reverse the current situation and defend the glory of the Korean nation and the entire human race!

“I will go now!” Cao Jiudian rushed out first.

However, it was a little late for their actions. When he walked to the door of the game room, Li Shiya’s body shook a few times, and a puff of blood was sprayed on the chessboard, and then straight down, the chessboard was Li Shiya fell down, and the black and white chess pieces landed on the ground ...

Chapter 446 - Aftermath

Northern Song Dynasty nationalist Liu Zhongfu played 120 games with a country old woman in Lishan, and was defeated and vomiting blood; the neon chess world star of hope, Incheon, challenged the local peace and peace, and the peace was played continuously. Known as “Zhang He San Miu Shou”, 68, 70, and 80 played well. Chi Xing, unable to cope with it, barely went down to 246 hands and spurted blood on the chessboard.

These alluded chess players knew that Li Shiya vomited blood and immediately got nervous, all rushing to the game room; Lu Qiuqian flashed a few steps to the game room door to stop them, “Don’t come in, make way for the doctor! “

The doctor who served the game gave Li Shiya a sedative after the examination, “He just had a haggard heart, just a good night’s sleep, but don’t let him play chess again until his physical and psychological recovery is complete, it’s best not to even have chess scores Look!”

“Can’t Shiya play chess in the future?” Cao Jiudian was relieved when he heard the doctor’s first sentence, but he worried him again.

“It’s not that serious. Now the medical treatment is much more developed than it was back then. It only takes a period of rest and conditioning. After about a month, Li Jiudian can participate in the game again!” The doctor is also a senior Go fan, knowing that Liu Zhongfu and Chi Xing hurriedly spoke comforted by the allusion.

“Please give me a hand, I will send Li Jiudian to the hospital!” The chess game is not over, the players have been taken to the hospital, all this happened in the live broadcast, the fans of the three East Asian countries collectively lost their voices.

Since the chess player is gone, the game is over. Lu Qiuqian went to the hospital with the team and confirmed that Li Shiya will not leave any serious sequelae before quietly leaving.

“I’m sorry that this will happen! My colleagues and I hope that Li Jiudian will recover soon!” Lu Qiuqian said in response to a reporter’s question.

“I will take the place of Shiya and continue to complete the rest of the game. Even if we eventually lose, I will show the charm of Go to all people who love Go!” Li Shifu’s solemn face answered him. Will there be an accident like Li Shiya. He said this, “I will adjust my mentality, but can participate in such a high level of game, even if hematemesi I will not give up!”

“The ideal of Go is neutralization. It is a state of harmony. Its focus is not on competition or victory, but reconciliation.” When the reporter asked Wu Qingyuan’s views on this game, he said so, although The unclear but already named Big Chess and Li Shiya’s game has deviated from Go.

Lv Qiu Jian agrees with his words, the outcome is not all Go. However, after all, there is a limit to the big chess slag. What it can only reflect is the calculation and fighting, and it is impossible to grasp the philosophy contained in Go. This is also the biggest bottleneck in the development of artificial intelligence. With one hand in Tianyuan’s position, the days when artificial intelligence surpasses humans are not far away.

Li Shiya was ready to get up. He was sent to a sanitarium with a beautiful environment and fresh air. Li Shifu took his place opposite the big chess slag. The next four games will be dominated by him.

Did not surprise anyone. In the next four games, the Korean chess player group led by Li Shifo had no victory. However, drawing on the lessons of Li Shiyao, Li Shifo maintained a relaxed mentality against the big chess slag, ignoring the outcome of the game, and only wanted to play Go in line with his philosophy.

Such changes actually make the situation look good. Shi Fo’s smile on the face of Gu Jingbo has always been a rare smile, bringing chess fans a beautiful game after game.

“If someone can reach the level of near Tao, then it seems not impossible to defeat the big slag!” His performance renewed hope for professional chess players, Nie Jiudian gently patted his cheek with a fan.

“Yes, artificial intelligence is different from people after all!” Looking at the end of the last game, Li Shifo stood up with a smile and waved. There was no trace of frustration in his face; Lv Qiu Jian was relieved. If he fell to the second person in the game, his pressure would be great.

Pearl, in an office building. A female reporter desperately called the United States, her unremitting efforts finally paid off, and through several layers of relationships, she was given the opportunity to interview Professor Henry Mitchell.

“... Yes, I now take back what I said at the beginning. Professor Lu Qiuqian’s team used delicate ideas to overcome the obstacles that cannot be exhausted by Go!” At the press conference in the United States. Professor Mitchell, the authority of the artificial intelligence community, talked happily with a new “nature”. The cover of this magazine is the picture of the big chess game.

“... Professor Lu’s team has left us behind, and now in this field, his team has become the most authoritative expert ...”

This is awful. The female reporter lowered her head in frustration. It seems that this time was a waste of time! Positive news like this Her boss is never allowed to publish it.

She did not publish it and did not mean that other media would make the same choice. Soon the news that China ’s artificial intelligence research level had already begun to lead the country in certain fields quickly covered the Chinese media, accompanied by the big chess ***** and South Korea. The upsurge of chess players, artificial intelligence has become the most popular vocabulary for a while.

People began to imagine what the future of highly developed artificial intelligence will look like? Will the scene of Skynet ending human ***** appear as in the movie? Of course, more is still praised by Lu Qiuqian and his team. According to the rumor, at the next National Science and Technology Commendation Conference, artificial intelligence is very promising to win the scientific and technological progress award.

Some people are happy and some people are unhappy. Just as everyone cheered for the achievements of Lu Qiuqian’s team, in a luxuriously decorated office, a middle-aged man who exuded a high-profile person threw the newspaper on the table. .

“Now it seems that the public offensive we prepared some time ago is going to be cancelled!” A secretary-like person whispered with his head down. He had asked a lot of media staff to write articles before, preparing to attack Lu Qiuqian and spending a lot of money after returning to China. , But did not achieve any results. I did not expect to be beaten before the article was published.

“Hmm!” The middle-aged man waved his hand to signal his departure. He didn't know why his backer was aiming at Lu Qiuqian, but the other party's order must be completed. So if this hand is not working, what should I do next?

Chapter 447 - Special train compartment

“I have to go out for a while recently. You have to take care of yourself at home. If you have anything, please call me at any time!” Lu Qiuqian packed his luggage and said to Xia Xiao. □

“How long will I go this time!” Xia Xiao sorted out the clothes for him and carefully pinched the thread on his shoulder.

“I'm afraid it will take a little longer this time. I'm going to Changan to see the preparations for the laboratory!” Even at home, Lu Qiuqian always pays attention to the principle of confidentiality and has not revealed the secrets of the base to Xia Xiao. Take a look at several local cooperative units in Chang'an, it takes about a month! “

“By the way, if things go smoothly, I will go to see the house in Chang'an; we will go to live there in a few months, and then I will buy two more sets and connect both of our parents. Come and live together! “Lv Qiuqian will never overestimate the opposition's morality, it would be better to be close to him.

“My parents all have jobs in Xiangnan, I guess they are not willing?” Xia Xiao half said with joy and half hesitation, since Lu Qiuqian willing to let the parents of both sides live together, it means that the two should have a result It seemed difficult to convince her parents to give up work.

“You don't have to worry about this, if you talk about historical relics and ancient buildings, there are few cities in the country that are richer in resources than Changan!” Xia Xiao's father is engaged in the maintenance of ancient buildings, and her mother is good at the firmness and restoration of ancient calligraphy and painting , “I will find a way to transfer them to the Qin Provincial History Museum or Changan History Museum, so that they will not waste their professional abilities and allow them to stay with you.”

“Well, it is estimated that they will accept it! I will call them back and talk about it!” Seeing Lv Qiuqian proposed a perfect solution, Xia Xiao suddenly relaxed.

“What kind of house do you like?” There is still some time before departure. Lu Qiuqian opened his laptop and searched for Changan's real estate information and studied with Xia Xiao.

Soon, the two of them determined several intentional listings, and Lu Qiuqian kept them in mind. Then go out and go downstairs before the appointed time.

Arrived downstairs, Bai Yaoran was already waiting there, and greeted Lu Qiuqian to sit in the car, "Is everyone else departing? We are taking the airline flight this time?"

"Li Gong and Assistant Ma have also departed. We will take the train this time. From now on, unless there is an emergency, I am afraid you will have no chance to fly!" Bai Yiran replied while watching the situation outside the car with vigilance.

"Oh, I was treated with Oppenheimer! But the situation is not so serious?" Lu Qiuqian roughly understood the above idea. When Oppenheimer presided over the Manhattan project, Roosevelt strictly prohibited him. take plane. The reason is that if his plane crashes, the Manhattan plan will be stalled.

"Be careful, it's always good!" Bai Yaoran was afraid that Lv Qiuqian was too worried, so he patiently explained, "We didn't find any problems, this is just for safety."

Although according to statistics, it is safer to take a plane than a train, but once the plane crashes, there is little hope of salvation, and even if there is something wrong with the train, it can always save your life.

Did not object to this. The country has handed over such a major project to him, and he has an irreplaceable role in the project. It cannot be overstated anyway; and if you take the train, as long as it is not the enemy's frustrated attack with a large number of explosives or missiles. With his ability, he can escape his life anyway.

Arrived at the train station, his own staff drove away Bai Yaoran's car, he did not take the passenger entrance, but took Lu Qiuju to a side door that was not noticed. After presenting the ID, he went directly to the platform without checking the ticket. Bai Yaoran led him to the front of an ordinary car. Ma Yang and Li Yan also seem to have just arrived and haven't had time to get on the bus.

"Professor Lu!" Li Yan and Ma Yang, who had come one step earlier, greeted each other, and the group went directly into the carriage. As soon as they entered, the three of them froze, which was completely different from the train they used to ride!

I saw that the interior of the carriage was divided into three parts, the reception room and dining room, studio and lounge. The reception room was located near the back side of the sofa. There were

several sofas on the coffee table in the middle of the sofa with fruit plates, snacks and tea sets, fruit plates Among them, the apples are ruddy and the grapes are full, which is appetizing.

The studio has computers, printers, fax machines, telephones and other office facilities. Lu Qiuqian tried it, and he can still access the Internet, so that he can continue to work even during the journey.

Open your own bedroom, which has the same layout as the hotel, a 1.8-meter-size bed, LCD TV, soft carpet on the ground, and a bathroom for the bedroom owner on the side. Bathing on the train is not a problem at all.

Lu Qiuqian walked to the window and pushed it, the window was intact, the glass was also made of single-sided glass with special crafts You can see the outside from the inside, but you cannot see the inside from the outside; he reached out and knocked After knocking, the sound made by the glass is also different from other glasses. According to Lu Qiuqian 's simple estimation, this glass can withstand the sniper rifle bullets flying 300 meters away; the walls on all sides are also the same, high-grade wood The following are special steel plates, which can also play the role of bulletproof.

Although the package is so tight, there is no dirty smell in the air. I think this car should be equipped with a special ventilation system.

When Lu Qiuqian and three people visited the carriage, Bai Yaoran had arranged security work. There were uniformed staff in charge of guards at the front and back of the carriage. Occasionally, passengers looking for a dining car walked to the door and were politely persuaded.

“Professor Lu, this is a personal special train car built for you by our unit and the Ministry of Railways, and you will take this train car when you go far!” Bai Yiran said.

This is much more comfortable than taking a plane. Except that there are no flight attendants or those dazzling luxuries, this train compartment is more comfortable than those private jets.

“Thank you!” Lu Qiuqian said thanks to Li Yan and Ma Yang, “Okay, since the conditions here are so good, then we will take the time during the trip to discuss and discuss the work plan after going to Changan. ! Li Yan, please talk about our schedule first! “

“Okay, after we arrive in Chang’an, there are mainly the following tasks that need to be completed ...” Li Yan took out his notebook from the bag and opened it.

Chapter 448 - Guarded

It takes ten hours from Beijing to Chang'an. After discussing the schedule, Lu Qiuqian and others began to work on their own. Lu Qiuqian continued to study the materials of the base planning and cooperation units, and Li Yan brought his men to discuss Focusing on the focus of the investigation, Ma Yang still stayed in the corner as usual and continued to study the theoretical article Lv Qiuqian handed to him.

After a long journey, when the night fell, the group finally arrived in the ancient capital of Chang'an. According to the schedule, on the first day of their arrival in Chang'an, they had to meet with officials of the local government to communicate with the local government and Xi and the planned cooperation matters. The base is set up on other people's sites, and in the future it will be necessary for local cooperation.

The deputy governors in charge of science, education, culture and health in Qin Province and the mayor of Chang'an City and other senior local officials came to pick up the station. While watching the train approaching in the distance, they whispered something and the entourage retreated Behind,

"Governor Deng, to be honest, this is the first time I have come to pick up such a young person!" Mayor of Chang'an Huang Shang said to Vice Governor Deng Yunzhou with emotion.

"Don't mention Professor Lu's Nobel Prize winner, he used his money to throw tens of billions of funds into Chang'an. Shouldn't you come and pick it up? If you're not happy, I'll pick it up by myself. The professor moved the base to the city next to it. See if you still laugh!" Deng Yunzhou joked.

"You are planning to dig my corner root!" Chang'an is a sub-provincial city, and its independence is stronger than other provincial capitals, so Huang Shang is not very dazed. Deng Yunzhou, "You look at my hair, to help Professor Lu demolish , The white hair is directly more than half! If you rob someone, why do n't you bear it! "

Was saying that the train had stopped slowly in front of them, the two stopped to talk, and the entourage was busy immediately.

"Professor Lu, hello! Welcome to Chang'an!" The two parties greeted each other and introduced each other, then went directly to the hotel arranged for Lu Qiuqian.

Reached the wine table. After tasting local delicacies and drinking a few glasses of thin wine, the two sides began a formal conversation. Huang Shang briefly talked about the work carried out by

Chang'an for Xi and the plan. Lv Qiuqian also revealed his purpose to Chang'an a little bit. When Huang Shang and Deng Yunzhou heard that Lu Qiuqian said they would inspect the local cooperative units, and they decided whether to provide assistance to them according to the inspection situation. This is a good opportunity to promote local economic development!

Early the next morning, Lu Qiuqian took Li Yan and Ma Yang to the base. See how far the current construction progress is, and how long will it take to pull the team from the capital to a new base. The bases currently used are poor in terms of conditions, and the security is not high enough. Many jobs are not suitable for development. The base can start formal work one day earlier.

Bai Yaoran is still in charge of security work. He directly dispatched a group of people from the military area and the local National Security Agency. Several vehicles with special license plates carry capable soldiers and vigilant national security personnel. Go outside.

The convoy drove out of Chang'an City, crossed the plains and surrounded by mountains. Then I turned a corner into a hidden ravine. From the signs of the road's color and the remaining gravel stubble on both sides of the road, it can be seen that the road was built for no more than one year. It should be for Xi and planning And specially trimmed.

Less than fifty meters into the ravine, the convoy was stopped, Bai Yaoran went out to negotiate, and the convoy was able to move on; after another ten kilometers, he met the second checkpoint, this time whether it was the army or the national security. All the cars in the department were blocked from the checkpoint, but Lu Qiuqian and his party were put in after verifying their identities.

at this time. The base's seniors have been waiting here for a long time, and Li Yan came forward to introduce them, "Professor Lu, this is Major General Li Jiajin of the Base Engineering Department! At present, the construction work of this base is mainly led by Li Shaojiang's children."

"Hello Major General Li. You have worked hard with these soldiers during this time!" Lu Qiuqian extended his right hand and shook him. Major General Li Jiajin was a forty-year-old, dark-skinned middle-aged man, shaking hands firmly.

"It is the duty of the soldiers to complete the task. What hard work is there!" Li Jiajin revealed a neat and timid exclusivity exclusively for the soldiers, and directly invited without too many polite sets. "Professor Lu gets in my car, and I will introduce to you the progress of the current project!"

Lv Qiuqian and Li Yan got into his military vehicle, and Bai Yaoran also followed. Li Jiajin froze, waved his own guard back, and sat alone on the front passenger.

The car continued to move forward, Li Jiajin began to tell Lu Qiuqian the origin of this base, “This base was the product of the three-tier construction period.” He pointed to the mountain in front, “This mountain was hollowed out, according to the original He must be able to withstand the attack of the nuclear bomb; later due to changes in the times this base was sealed and was not re-opened until last year. “

“Fortunately, there is such a place, otherwise the construction period will be long!” Lv Qiuqian’s eyes swept across the road and vaguely saw some unique cars hidden in front.

“Those are anti-aircraft missile vehicles!” Li Jiajin noticed his curiosity and introduced, “Since the road repairs are completed, we have sent a battalion air defense force to protect the base. This battalion is equipped with a missile control vehicle and a positioning. A radar vehicle, a search radar vehicle and 8 missile launch vehicles. Each missile launch vehicle has 4 missiles in the missile launch box. “

“These missiles are the s-300 series introduced from the north. The air defense battalions of this configuration were mainly arranged in the coastal area, and they were placed inland for the first time. It is a delusion that they want to attack the base through the air in any force. “Major General Li Jiajin introduced confidently,” As for the ground protection force, it is mainly composed of three parts. The first part is an armored regiment stationed outside the base, equipped with the most advanced tanks in China; the second line of defense is that you just got off Where no one can enter without the pass you hold; the third line of defense ... “

With so much effort and so many troops, this base is really guarded! As long as there is no chaos inside, external forces want to destroy the base, I am afraid it can only be delusional!

The speaking room has reached the entrance of the base. As soon as the car stopped, Major General Li came down from the car. “Dr. Lu, this is our base!”

Chapter 449 - Base prototype

The design drawing of the base, Lu Qiuqian, has been seen many times, and he has proposed many amendments with Li Yan, but those are the things on the drawings. When he really came to the construction site, he was shocked. Health.

Their group is now standing on a small hillside, looking down the hillside, the two sides of the river channel between the two hills below the hillside are roaring mechanically everywhere, countless huge construction machines are busy doing their work, the machinery around Engineers in camouflage uniforms skillfully cooperated with the machines to build those buildings with unique shapes; with their efforts, the buildings on the drawings have already taken shape.

“This project selected two engineering brigades, both from the backbone units of the Second Artillery Corps. They are technically sound and politically reliable. From the beginning of the project to the present, they have been working overtime and overtime. The construction of the project has been completed. The next step is mainly to build supporting facilities and equipment installation. It is expected to be handed over for acceptance by the end of this year! “Major General Li Jiajin introduced proudly.

The soldiers of these children hacked the mountains and cleared the rivers to open up a modern base of Nuo Da in this inaccessible deep mountain. It was hard to imagine the hard work in such a large period of time to complete such a large amount of works.

“Professor Lu, look at the surrounding environment!” Li Jiajin held out his right finger and circled the surrounding mountains. “The location here is unique. Because of the mountains, foreign satellites cannot directly observe the bases in the valley. ; At the same time, we have very strict requirements on the internal probability. Except for a few core personnel at the base, no one else knows what the purpose of this is! Therefore, the people of the United States can only use vehicles and machinery on the nearby roads Make a guess. “

“You are experts, you should have prepared a few sets of rhetoric?” Lu Qiuqian looked at Bai Yiran. Such a large-scale project would certainly not be able to conceal people, but presumably the security department has a plan!

“At present, some news has been released by spies lurking in the country through countries such as Miguel and Neon. They are still verifying.” Bai Yaoran rarely smiled because of the secrets of the base, Miguel and Neon and other countries. I have to increase the strength of the intelligence agency, which allows the security department to have a lot of information about the other party’s spies that were not in the past. The harvest can be described as quite rewarding, and his leader Lin Qianjun has received successive commendations from his superiors.

“Go, let’s go in and see!” As the group went on, Li Yan looked at the construction site while matching the upcoming buildings with the drawings in his mind. “This circle should be the first line of defense inside the base, surrounded by the living area, entertainment and leisure area of the peripheral personnel ...”

Lu Qiuqian saw that there were just a few open-air basketball courts in the front. A group of engineering soldiers on vacation were engaged in a fierce competition. Ten soldiers divided into two sets of passion and sweat on the court. The audience on the court Watching the situation nervously.

“That one is an indoor cinema. There are four screening halls of various sizes, and the equipment has been installed; there is an indoor swimming pool, which is a standard swimming pool of fifty times twenty-one meters; there is a cafe, Restaurant, chess room, badminton court, tennis court, gymnasium ... “Li Jiajin pointed to each other.

“The conditions are now much better than my mother when they participated in two bombs and one star!” Li Yan said with emotion.

“The staff here will live here for a long time, and the completion of the supporting facilities will also benefit their physical and mental health, and their work efficiency will be higher!” Said Lu Qiuqian.

The party in the room had already come to the basketball court, only to hear a snap, a big cap under the basket fanned the opponent's layup out of the court, and it just flew to Lu Qiuqian's side.

“Be careful!” Bai Yaoran's conditioned reflex seemed to be blocked in front of Lu Qiuqian. He blocked Lu Qiuqian but could not care about himself, and watched that the basketball would hit his face. Despite this requirement for his own job, he was prepared to meet the shock without blinking.

Just when the basketball was about to hit his nose, a hand was stretched over his shoulder, blocking the basketball and then the arm was retracted to remove the impulse. The basketball stopped in his hand obediently.

The eyes of the soldiers were then on their group, and they stayed on Li Yan for a long time, but also, the face of a white man in the heavily guarded base made them have to be vigilant, but watch The highest military chief to the base stood beside him casually. The soldiers relaxed their vigilance, and then turned their attention to the basketball in Lu Qiuqian's hands.

It has been a long time since I played! Lu Qiuqian stood on the sidelines and visually inspected the distance. His right hand posed for a one-handed shot and threw hard. The basketball crossed a beautiful arc under the watch of many soldiers, swiped across the net with a swipe, and a beautiful super long-range three-pointer.

“Good shot!” For a while, the soldiers applauded in unison; watching Lu Qiuqian's eyes were particularly eager It looks like if Li Jiajin was not nearby, they might invite Lu Qiuqian Did you show your hands?

“Let’s go. Let’s continue to look at the other parts!” Lu Qiuqian waved his hand with a smile, and Li Jiajin and others walked deeper into the base.

Go up the river in the mountains and enter the second functional area of the base. This is the supporting center of the base. It is responsible for power supply, communication hub, monitoring center, water supply and heating.

At the foot of the mountain, I finally entered the formal research area. The scale here is much larger than the first two areas. Li Yan continued to distinguish one building after another. “This is a laser emitter laboratory, this is a superconductor material. Laboratory, this is the permanent magnet laboratory ... “

Ma Yang’s face is still dull. These are important, but they are not the core area of the base, and they haven’t surprised him.

Lu Qiuqian’s attention was placed in certain corners of the surrounding mountains. According to his observations, there were hidden powerful weapons everywhere. Whether the enemy appeared from the sky or from the mountain, they would be quickly discovered and destroyed.

After watching the empty labs in more than an hour, Li Yan expressed great satisfaction. In the future, he only needs to bring in the equipment and personnel to start using it.

“Where is the core area of the base!” Reached in front of a sentry post, Li Jiajin pointed to the cave in the black hole behind the post and said, “It is also the most tightly guarded area of the entire base!”

Chapter 450 - Deep in the cave

After carefully verifying the identity of Lu Qiuqian and others again, the soldiers guarding the entrance of the cave let them go into the cave, and the bright lights illuminated the inside of the cave like daylight.

“Maybe you have heard of the 816 underground base that was decrypted a few years ago! Where is it called the world’s first artificial cave.” Li Jiajin continued to play the role of an narrator, “but the cave in Yuzhou is actually far from worthy. With this title, not only is it not the largest artificial cave in the world, but also in our country, there are several artificial caves larger than it, and we are currently using one of them. “

“The entire cave has 11 floors, 102.3 meters high, and a total length of 35.4 kilometers. The volume of stone excavated during the construction of the cave was 1.84 million cubic meters, and more than 200,000 cubic meters were excavated this time.” After entering, it makes people feel as if they are in the world of science fiction. It is better to see Lu Qiuqian and experienced Li Yan who have seen CERN’s underground facilities. Ma Yang, who was mainly engaged in theoretical research before, looked at the magnificent scene around him and was surprised.

“There are eleven openings in this cave. The main entrance and exit we just came in. Others have personnel entrances, car entrances, drains, exhaust vents, etc., which have independent power supply, water supply, ventilation systems and a large number of material reserves, even in a completely closed situation, the staff in the cave can continue to survive for a year! “Li Jiajin walked to the elevator and checked the fingerprint and pupil iris, a password disk popped up, he quickly entered the password. Finally, I took out a key, and after a series of complicated procedures ended, the elevator doors slowly opened, “I will take you down to see the core area of the cave, where it is transformed according to the drawings you give! “

Lu Qiuqian used his heartbeat frequency to silently calculate the downward speed. The elevator descended sixty-three meters and reached the core area of the base.

Walking out of the elevator, a huge and empty cave appeared in front of everyone. Although there were only electric lights, elevators and other infrastructure, Lu Qiuqian had already filled out the picture after the equipment was installed according to the topography of the scene.

The center of the front should be the location of the fusion reactor he reserved. Above is the laser ignition device, below is the plasma confinement device, and the superconductor coils are densely surrounded ... Seeing that his plan for many years of preparation is about to enter the formal implementation, Lu Qiuqian held his breath excitedly.

“This is an emergency evacuation channel. If there is an accident in the test, then you can evacuate in the shortest time through here!” Li Jiajin didn’t seem to find Lu Qiuqian’s special, and continued to introduce.

Ma Yang pouted and said nothing, Li Jiajin may not yet know what is being studied here; but he knows that if there are really the most worrying accidents here, I am afraid that this emergency evacuation channel can only be used for decoration! But still. There was still no worry on his face, but excited flames flashed in his eyes. It seemed to him that if he could verify the theory he helped Lu Qiuqian refine some time ago, then what was the risk?

“It should be a supercomputer room!” Li Yan pointed to the cave on the other side. According to Lu Qiuqian’s request, the country will allocate a supercomputer with the speed of 100 billion times, and it will be placed here. Add the Tianhe series that is under pressure, runs faster, and has more powerful functions.

I spent more than an hour in this largest cave, and then a group of people took the elevator to another cave; there is an area for scientific research on supporting nuclear fusion technology.

Only a controllable nuclear fusion reactor is not enough. It is also necessary to develop a more powerful power transmission system, a new battery with high capacity and high efficiency, and the related research and development of reactor miniaturization. Only then can the true efficiency of controlled nuclear fusion benefit life. Every corner.

Some of these technologies can be developed by other units. For example, the power transmission system, Huaguo is at the world advanced level in certain fields of power technology. They have accumulated enough experience in power supply and transmission. This work is much more convenient for them to complete in this unit than here; of course, this The part closely related to the controllable nuclear fusion power generation system still needs full-time personnel to conduct research here.

The entire cave has formed a black technology R & D center with a controlled nuclear fusion center, divided into several groups, and under the unified coordination of Lv Qiuqian to carry out simultaneous research. When the controlled nuclear fusion reactor can operate stably, other fields should also Some achievements were born, and by then Hua Guo could replace the industry with a controlled nuclear fusion as the core.

same. The security levels of the various areas in the cave are different. Each staff member can only work and perform activities in the corresponding area according to his own authority. If there is a problem of entering the non-authorized area by mistake, it will be subject to strict review; to a certain extent, it can be Ensure that the secrets of the base will not be disclosed.

“I thought that this base would also withdraw from the stage of history like the one in Yuzhou. I didn’t expect it to regain its vitality this time! It is presumed that it will become another shining holy place in the history of China in many years! “After the visit, Major General Li Jiajin said with emotion.

Is it estimated that it will become the home base of villains in Hollywood works? Lu Qiuqian secretly thought, how would Hollywood describe himself then? The black hand hidden behind the

scenes trying to destroy humanity? Or is it the hero who led mankind to the universe? I'm afraid the former is more likely?

Such a large-scale project can not be completed in a day. Today, Lu Qiuqian is just a hasty tour to understand the next big progress. As for other details, Li Yan will stay here and continue to communicate with Major General Li Jiajin; according to the visit After the conclusion of the discussion of the three people. Li Yan also needs to stay in the base for about a month.

After staying at the base for a night of rest, Lu Qiuqian left Li Yan the next day. He took Ma Yang away from the mysterious base in the mountain and went back to the urban area of Chang'an. He has other work to complete.

Whether it is a plasma confinement device for controlled nuclear fusion or a superconductor, it is inseparable from a certain rare metal element. After they formally enter the base With the experiment, the demand for this rare metal element It will grow larger and larger, and it cannot fully meet the needs of the project according to the current total production in the international market; then the current task is to select several manufacturers to provide them with financial and technical support to expand their production.

Therefore, the first cooperative unit visited by Lu Qiuqian was Chang'an Nonferrous Metals Company.