For Joe's scheme to work, he needed to solve an extremely complex hidden cipher hidden inside Tom Lockwoods personal codebook; only after decoding this information could he obtain access to Tom’s banking information so he decoded everything in order to help frame his bodyguard Hugo for the dearth by hacking into Tom’s and sending a large amount of money into Hugo’s account to frame him.



Finding the information

P1: As seen from even his created online presence, Tom is into great men, wars, vintage planes, analog books, intel, military structures.

P2: Tom would keep his secrets in plain sight.

P3: this would be banking information.

P4: This book is seen multiple times with him in pictures.

C1: The information must be in this book.

P5: This page has a smudge on it.

C2: This must be the page with the information.

Joe had done all of this instantaneously.

Decoding the information

P6: There are strange symbols, numbers, and letters arranged in grids which were used to encrypt the information

C3: These are most likely ciphers.

P7: The codebook shows grid variations and substitution tables where symbols and numbers connect to letters through the coordinate positions; it also shows Greek letters with complex symbols.

P8: Tom's phone notes contain the same cipher strings and using different symbols like in the book

C4: These rules applied will give me the banking information needed.

It is unknown how much time this took, but it was most likely a very short timeframe.

What to do with the information

This is the false reasoning that Joe will make the police go through.

P1: Hugo was in a financial crisis.

P2: Hugo was barely able to sleep.

C1: Hugo is not in his right mind and might find resentment towards Tom.

P3: £2,000,000 is found missing from Tom Lockwood's account.

C2: Hugo was the one to rob and kill Tom.

Joe thought of how to do this instantaneously. Joe would obviously scale above this also reasoning that he created for the police.

He put together a story about how the bodyguard (Hugo) was doing badly financially, so he tried to rob Tom Lockwood and got what he wanted but accidently went too far and killed him. For him to do the financial part, he knowed that he must get Tom's banking information somehow. While searching through Tom's photos online, he saw that a book was seen in multiple pictures so Joe understood that Tom was keeping his banking info in sight. He was going to search the entire book to find where the information was but he quickly found the exact page by looking at fingerprints. I should mention this is a book that has random letters scattered around the page and not just a regular book. To decode the banking information, Joe matched the letters on Tom's phone with the ones on the page. He decoded the information and entered Tom's account, from there he sent 2 million pounds to Hugo _____

Why is this impressive?

Joe is basically solving an extremely complicated cipher in a very short amount of time. Tom's cipher isn't just A=1 or B=2 it is a multi symbol with numerous coordinates similar to military style code books it uses Latin letters Greek letters Mathematical symbols ASCll/non-ASCII glyphs and numerous symbol pairs this is an extremely high level cipher that Joe managed to connect and solve in a again a very short time frame Tom's cipher was an example of a poly alphabetical multi layered cipher it was extremely complex with no plaintext examples or anything to actual help Joe he had to purely solve it with no examples

to even tell him how to do it so he had to solve a military level custom made cipher with no examples or prior knowledge on it mind you the reason I say custom is cause Tom's cipher doesn't look standard with all the high letters different symbols it's a customs one a very high level one he made for himself as he is obsessed with these types of codes.

Explaining how it works and why this is impossible under Joes circumstances

So I will explain how the cipher works. The cipher works by mapping each symbol to a coordinate inside the grids (Table A, Table B, etc) Joe must locate each symbol, find the exact row and column it sits in and use that coordinate to produce a plaintext letter because Joe has no plaintext examples no key or information/instructions he must decode every symbol perfectly and then assemble the letters into the final sequence which was extremely difficult considering Joe had to handle Tom and Hugo's body staging a crime scene framing somebody cleaning up evidence etc so he's in an extremely complex situation and he has to solve a complex code with no mistakes and no room for errors. Examples of what Joe had to handle were symbols (T, ≠, S6, K4, Q7, etc.) T ≠ S6 F ≠ Q ≠ K4 Q7 this was the hardest part of what Joe had to solve he had to scan the gird get the right table map it to the letters assemble the final table/output etc also I will explain the stuff on Tom's notes Tom's notes contain stuff like VS, 80359, SGN^, and other mixed symbols/clusters these match what is found in Tom's book this allows Joe to infer that the phone and the notes has the same cipher system by matching the stuff from the corresponding phone's cipher segments to the corresponding symbols in the books grid Joe identified which relate to banking acess then then boxes them as "BANK" to mark their category

Logical Reasoning

Deductive: identified the ciphers as a coordinate like structure/system recognizes that each symbol T, ≠, S6, K4, Q7) must map to a letter through row/columm look up, applies the grid rule consistently and extracts the plaintext he needed to produce.

Inductive: sees repeated patterns such as (S6, Q7,K4) recognizes that repeated ciphers clusters likely corresponds to repeated letters or parts of the password also generalizes Tom uses these types of ciphers and its consistent across pages and then generalizes that the boxed clusters belong to the BANK semantics category. So what that means is the stuff on Tom's phone notes (VS, 80359, SGN^, etc.) are cipher segments Joe extracted from the page and Tom's phone Joe wrote the word BANK to label and mark which ciphers relate to the banking information.

Abductive: had to infer Tom was keeping secrets in plain sight inferred the smudged page was the one he used most infers the cipher has the banking information needed which cipher parts relates to the bank infers the meaning of the boxed segments then the structure of the password from partial decoding.

Abductive>Inductive>Deductive

Accuracy

Joe was forced into making the correction code cause he only had one chance to do it so his accuracy was 100 percent correct on his first try if he got it wrong and entered the wrong code that would ruin his scheme Joe had to do this one time with no mistakes so everything he did was correct and perfect done this is massively impressive considering how complex and difficult the cipher was as we

established if a normal person was in joes circumstances or even an expert at cryptography they would need hours to do me that code it is almost impossible if you know for example if you have a plan text with atleast one phrase word or pattern it helps for example if you have XQZ=THE you can decode the rest faster but Joe has T ≠ S6 F ≠ Q ≠ K4 Q7 and has no idea zero clues where these map to be has to decode each symbol individually if he does or misreads one row column symbol or coordinate he has no way to check if his output was wrong this is on the level of an expert cryptanalyst again had to reverse engineer a military cipher perfectly with no mistakes with no plaintext or instructions is at a expert level.

Debunks?

Somebody said this feat isn't good cause he solved the code himself meaning it's average human now the reason this is completely stupid logic is because what the viewer can interpret is not what the character has to handle or interpret because in the same circumstances that joe was in he has more issues to handle or etc while the viewer has more clues time and not under the stress or situations that the characters are in they have much more time to do it under no stress with more clues evidence or already pointed out facts the character doesn't have or hasn't given yet an example of our debunk is the Dexter bank vault feat Dexter vault premise 1 the drawer with the files of serial killers was highlighted intentionally meaning it's possibly a clue to the connected locked code premise 2 the lock has a 8 digit number which implies it needing a month day year therefore the clue must be a important part in praters life conclusion the clue is tied to praters history with killers premise 3 the date needs to be a traumatic event that shapes praters life 4 the date of praters parents death it would be to obvious and even if traumatic not the code premise 5 Dexter remembers that prater told him the day he spoke with his parents killer is what sparked him to do what he does conclusion the date

needed is the day prater meet his parents killer and I say oh I solved it that means it's easy no I wouldn't be able to solve it under dexters conditions with one chance to not mess up or even remember the exact date Leon told Dexter once so again whoever thinks that debunk is actually good is very stupid logic like if you solve Tom's code you already have the facts your looking for banking info and your legit giving the final passcodes or ect in the end so you already know the details you know how the ciphers work you know how it's supposed to be solved your not smart for doing something given done for you like who thinks this is a valid debunk