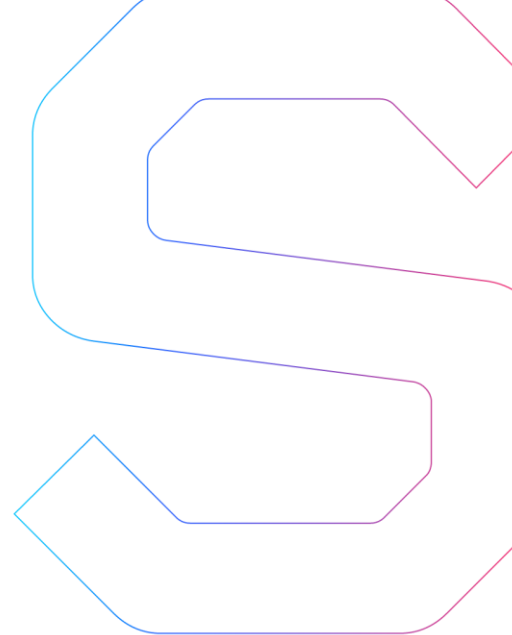


SmartDec



Lendingblock Smart Contracts Security Analysis

This report is public.

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Abstract

In this report we consider the security of the [Lendingblock](#) project. Our task is to find and describe security issues in the smart contracts of the platform.

Procedure

In our analysis we consider Lendingblock [whitepaper](#) (version of 23.02.2018) and [smart contracts code](#) (version on commit bd3d4ed).

We perform our audit according to the following procedure:

- automated analysis
 - we scan project's smart contracts with our own Solidity static code analyzer [SmartCheck](#)
 - we scan project's smart contracts with several publicly available automated Solidity analysis tools such as [Remix](#), [Oyente](#), and [Solhint](#)
 - we manually verify (reject or confirm) all the issues found by tools
- manual audit
 - we manually analyze smart contracts for security vulnerabilities
 - we check smart contracts logic and compare it with the one described in the whitepaper
 - we run tests and check code coverage
- report
 - we reflect all the gathered information in the report

The latest version of the code

We have performed the check of the fixed issues in the [latest version of code](#) (version on commit f49a6ed) and updated [whitepaper](#) (version of 28.02.2018).

Disclaimer

The audit does not give any warranties on the security of the code. One audit can not be considered enough. We always recommend proceeding with several independent audits and a public bug bounty program to ensure the security of smart contracts. Besides, security audit is not an investment advice.

Checked vulnerabilities

We have scanned Lendingblock smart contracts for commonly known and more specific vulnerabilities. Here are some of the commonly known vulnerabilities that we considered (the full list includes them but is not limited to them):

- [Reentrancy](#)
- [Timestamp Dependence](#)
- [Gas Limit and Loops](#)
- [DoS with \(Unexpected\) Throw](#)
- [DOS with \(Unexpected\) revert](#)
- [DoS with Block Gas Limit](#)
- [Transaction-Ordering Dependence](#)
- [Use of tx.origin](#)
- [Exception disorder](#)
- [Gasless send](#)
- [Balance equality](#)
- [Byte array](#)
- [Transfer forwards all gas](#)
- [ERC20 API violation](#)
- [Malicious libraries](#)
- [Compiler version not fixed](#)
- [Redundant fallback function](#)
- [Send instead of transfer](#)
- [Style guide violation](#)
- [Unchecked external call](#)
- [Unchecked math](#)
- [Unsafe type inference](#)
- [Implicit visibility level](#)
- [Address hardcoded](#)
- [Using delete for arrays](#)
- [Integer overflow/underflow](#)
- [Locked money](#)
- [Private modifier](#)
- [Revert/require functions](#)
- [Using var](#)
- [Visibility](#)
- [Using blockhash](#)
- [Using SHA3](#)
- [Using suicide](#)
- [Using throw](#)
- [Using inline assembly](#)

About The Project

Project Architecture

For the audit, we have been provided with the following set of files:

- LendingBlockToken.sol
- LendingBlockTokenEvent.sol

The files are the part of the truffle project. The project also contains tests, deploy scripts, and several files that are beyond the scope of the audit.

The total volume of the Solidity code that has been audited is 224 lines of code.

The project compiles successfully with `truffle compile` command (see the [compilation output](#) in the [Appendix](#))

The tests successfully pass (`truffle test` command, [tests output](#)).

Tests show high [code coverage](#) level.

Code Logic

LendingBlockToken.sol contract implements the ERC20 token logic (StandartToken from [OpenZeppelin library](#)) with some modifications. The token parameters:

- name: "Lendingblock"
- symbol: "LND"
- decimals: 18
- total supply: 1,000,000,000

The owner of the contract is the address set by parameter in the constructor. When the contract is deployed, all tokens are transferred to the owner's address.

The LND Token is burnable (Burnable from OpenZeppelin library).

The `transfer` function is available only after `transferableTime` set to 1 Jan 2019.

Owner and contract creator can transfer token without limitations. `transferableTime` can be changed by the owner to lower value.

LendingBlockTokenEvent.sol contract implements the logic of the two crowdsale stages.

The features of the contract:

1. The contract is Ownable (Ownable from OpenZeppelin library).
2. The owner of the contract is the address from which the contract was deployed.
3. The contract constructor creates the tokens with one parameter: the address, from which the contract was deployed.

4. The contract constructor sets the value of `wallet` variable to the address, from which the contract was deployed.
5. All the following actions are allowed before the crowdsale end. The crowdsale can be closed with `endEvent` function only after setting and ending the Main tokensale. All the tokens left on the contract are burned.
6. Pre-sale and Main sale parameters are set with `setPre` and `setMain` functions. They can be called by the owner at any time. The parameters must meet the constraints checked in the contracts. Main sale can be held only after Pre-sale.
7. The owner of the contract can specify the whitelist of the addresses.
8. All the invested ETH go to Pre- or Main sale depending on the specified parameters. Inside the tokensale, the investment is checked for minimum allowed transaction and maximum allowed amount for one address. Besides, there is the check whether the investor address is whitelisted. If all the conditions are met, the tokens are transferred to the investor and the ETH are transferred to `wallet` address.

Automated Analysis

We used several publicly available automated Solidity analysis tools. Here are the combined results of their analysis. All the issues found by tools were manually checked (rejected or confirmed).

Tool	Vulnerability	False positives	True positives
Oyente	-	1	
Total Oyente		1	
Remix	Fallback function of contract requires too much gas		1
	Gas requirement of function high	41	
	Potential Violation of Checks-Effects-Interaction pattern	3	
	Potentially should be constant but is not	2	
	use of "now"	1	9
	Variables have very similar names	25	
Total Remix		72	10
Securify*	Transactions May Affect Ether Receiver	1	
	Transactions May Affects Ether Amount	1	
Total Securify*		2	
SmartCheck	Erc20 Approve	1	
	Erc20 Transfer Should Throw	2	
	Gas Limit And Loops	2	
	No Payable Fallback	8	

	Pragmas Version	9	1
	Reentrancy External Call	9	
	Revert Require	1	
	Unchecked Math	1	
	Visibility	1	
	Total SmartCheck	34	1
Solhint	Avoid to make time-based decisions in your business logic		10
	Compiler version must be fixed	8	2
	Event and function names must be different	4	
	Explicitly mark visibility of state	1	
	Total Solhint		13
	Overall Total	122	23

Securify* — beta version, full version is unavailable.

Cases when these issues lead to actual bugs or vulnerabilities are described in the next section.

Manual Analysis

Contracts were completely manually analyzed, their logic was checked and compared with the one described in the whitepaper. Besides, the results of automated analysis were manually verified. All confirmed issues are described below.

Critical issues

Critical issues seriously endanger smart contracts security. We highly recommend fixing them.

The audit showed no critical issues.

Medium severity issues

Medium issues can influence smart contracts operation in current implementation. We highly recommend addressing them.

Overpowered owner

In `LendingBlockTokenEvent.sol` contract, the owner is able to change tokensale parameters at any moment (`setPre` and `setMain` functions). This allows him/her to change the exchange rate and tokensale duration. We highly recommend limiting owner's possibilities, since such actions may be undesirable for investors.

Comment from LendingBlock development team: this provides flexibility with the parameters and safeguard to correct any mistakes in setting the parameters. To take care of misuse, operationally, the parameters will be tracked on chain and any misuse can be audited and traced. An additional note is that even malicious intent would not be possible to cause eth to be lost.

So these functions can be used for setting ETH/USD rate fixing during tokensale.

SmartDec recommendation for investors: as it is noted above in the comment by LendingBlock team, we recommend watching `SetPre` and `SetMain` events after the smart contract is deployed.

Discrepancies with the whitepaper

The audit showed several discrepancies with the whitepaper:

1. According to the whitepaper, section 8.2.5:
"A soft cap or floor will be set at the ETH equivalent of USD 5,000,000 at the start of the sale process."
However, the contracts do not implement `softcap`.

Comment from LendingBlock team: as softcap refers to the minimum amount to be raised for the project to be viable so it is not an actual cap. Not meeting the softcap will result in a refund. If this scenario occurs, we will either setup another contract to accept tokens for ETH or send ETH directly to token holders.

2. According to the whitepaper, section 8.2.4:

“A hard cap or ceiling will be set at the ETH equivalent of USD 10,000,000 at the start of the sale process.”

However, the contracts do not implement hardcap.

Comment from LendingBlock team: the hardcap is implemented by the amount of tokens in the contract, so before the event, USD 10 million worth of tokens will be sent to the contract and when all the tokens are sold, the hardcap would have been reached and no more tokens/funds can be sold/accepted.

3. According to the whitepaper

o section 8.2.4:

“A hard cap or ceiling will be set at the ETH equivalent of USD 10,000,000 at the start of the sale process.”

o section 8.2.5:

“A soft cap or floor will be set at the ETH equivalent of USD 5,000,000 at the start of the sale process.”

o section 8.2.10:

“The funding cap will be USD 500,000”

o section 8.2.13:

“The effective price of each LND will be USD 0.01 (USD 500,000 / 50,000,000 LND);”

o section 8.2.15:

“There will be a set participation level of USD 50,000 per participant for the private sale;”

o section 8.2.18:

“The funding cap will be USD 7,500,000”

o section 8.2.21:

“The effective price of each LND will be USD 0.016667 (USD 7,500,000 / 450,000,000 LND);”

o section 8.2.24:

“There will be a minimum participation level of USD 25,000 for the pre-sale;”

o section 8.2.28:

“The funding cap will be USD 2,000,000”

o section 8.2.30:

“The effective price of each LND will be USD 0.02 (USD 2,000,000 / 100,000,000 LND);”

However, the contract does not use the oracle to get the current ETH to USD rate: ETH to LND rate is calculated manually by the contract owner and is passed as a parameter when setting Pre-sale and Main sale parameters. Thus, LND to USD rate can change significantly during the tokensale.

Comment from LendingBlock team: the process to ensure the parameters are right are enforced operationally instead. A set amount of tokens will be sent to the event contract first to serve as the maximum number of tokens that can be sold for that

round. The ETH/USD rate is then obtained. Then the token/ETH rate is set such that the cap in USD is as stated in the whitepaper.

4. According to the whitepaper, section 8.2.6:

“Failure to reach the soft cap level will result in ETH being returned to purchasers, once expenses incurred in the token sale have been deducted.”

However, the contracts do not implement returning ETH in case softcap has not been reached.

Comment from LendingBlock team: This is not implemented as expenses are deducted from the refund amounts and to keep the contract simple. If this scenario occurs, we will either setup another contract to accept tokens for eth or send eth directly to token holders.

5. The contracts limit the investment amount for one address:

- LendingBlockTokenEvent.sol, line 78:

```
require(contributedValue[msg.sender] <=
maxCapPre);//total contribution not above maximum
```

- LendingBlockTokenEvent.sol, line 105:

```
require(contributedValue[msg.sender] <=
maxCapMain);//total contribution not above maximum
```

However, this is not described in the whitepaper.

The issue has been fixed by the developer and is not present in the whitepaper version from February 28th.

6. According to the whitepaper, section 8.4.50:

“LND tokens will be distributed to purchasers within seven days of the earliest of the scheduled end of the token sale process or the completion of the main sale.”

However, in the contracts, the tokens are distributed during the tokensale.

The issue has been fixed by the developer and is not present in the whitepaper version from February 28th.

Low severity issues

Low severity issues can influence smart contracts operation in future versions of code. We recommend to take them into account.

Large fallback function

The LendingBlockTokenEvent.sol fallback function is large. If the fallback function requires more than 2300 gas, the contract cannot receive ETH through some of standard ways. We recommend to avoid creating large fallback functions.

In this case this is necessary, so we recommend to mention in the API documentation that in some cases contract might not be able to accept ETH.

Pragmas version

Solidity source files indicate the versions of the compiler they can be compiled with.

Example:

```
pragma solidity ^0.4.18; // bad: compiles w 0.4.18 and above  
pragma solidity 0.4.18; // good : compiles w 0.4.18 only
```

We recommend following the latter example, as future compiler versions may handle certain language constructions in a way the developer did not foresee. Besides, we recommend using the latest compiler version (0.4.19 at the moment).

The issue has been fixed by the developer and is not present on commit f49a6ed.

Conclusion

In this report we have considered the security of Lendingblock smart contracts. We performed our audit according to the [procedure](#) described above.

The audit showed high code quality, high code test coverage and no critical issues. However, several medium and low severity issues were found and reported to the developer. We have discussed all the found issues with LendingBlock team. In cases when the developer was aware about the issues and they were the part of the design, we supplied the report with developer's comments. All the other issues have been fixed by developer in the latest version of the code.

This analysis was performed by SmartDec.

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Elizaveta Kharlamova, Analyst

Ivan Ivanitskiy, Chief Analytics Officer

Sergey Pavlin, Chief Operating Officer



March 7, 2018

Appendix

Lines of code (cloc tool output)

```
3 text files.
3 unique files.
0 files ignored.

github.com/AlDanial/cloc v 1.74 T=0.01 s (492.6 files/s,
60099.3 lines/s)
-----
-----
Language files blank comment code
-----
-----
Solidity 3 38 103 225
-----
-----
SUM: 3 38 103 225
-----
-----
```

Code coverage

```
-----|-----|-----|-----
|-----|-----|
File | % Stmts | % Branch | % Funcs | % Lines |Uncovered Lines
|
-----|-----|-----|-----
|-----|-----|
contracts/ | 100 | 100 | 100 | 100 | |
LendingBlockToken.sol | 100 | 100 | 100 | 100 | |
LendingBlockTokenEvent.sol | 100 | 100 | 100 | 100 | |
-----|-----|-----|-----
|-----|-----|
All files | 100 | 100 | 100 | 100 | |
-----|-----|-----|-----
|-----|-----|
```

Compilation output

```
$ truffle compile
Compiling ./contracts/LendingBlockToken.sol...
Compiling ./contracts/LendingBlockTokenEvent.sol...
Compiling ./contracts/Migrations.sol...
Compiling zeppelin-solidity/contracts/math/SafeMath.sol...
Compiling zeppelin-solidity/contracts/ownership/Ownable.sol...
Compiling zeppelin-solidity/contracts/token/BasicToken.sol...
Compiling zeppelin-
solidity/contracts/token/BurnableToken.sol...
Compiling zeppelin-solidity/contracts/token/ERC20.sol...
Compiling zeppelin-solidity/contracts/token/ERC20Basic.sol...
Compiling zeppelin-
solidity/contracts/token/StandardToken.sol...
Writing artifacts to ./build/contracts
```

Tests output

```
$ truffle test
Using network 'test'.
Contract: LendingBlockToken accessControl
✓ should deploy the contract and send the initial tokens
(176ms)
✓ token should not allow non owner to setTransferableTime
✓ token should allow only owner to transfer (93ms)
✓ token should allow approve, increaseApproval,
decreaseApproval but not transferFrom (174ms)
✓ token should allow owner to setTransferableTime to an
earlier time (67ms)
✓ token should allow transfer and transferFrom after
transferableTime (105ms)
✓ token should allow token burn (71ms)
✓ token should allow only owner to transferOwnership (53ms)

Contract: LendingBlockTokenEvent accessControl
✓ should deploy the contract and send the initial tokens
(164ms)
✓ tokenEvent should not allow non owner to setPre
✓ tokenEvent should not allow setPre if not now <
_startTimePre
```

```
✓ tokenEvent should not allow setPre if not _startTimePre <
_endTimePre
✓ tokenEvent should not allow setPre if not _minCapPre <=
_maxCapPre
✓ tokenEvent should allow only owner to setPre (73ms)
✓ tokenEvent should not allow endEvent if not endTimeMain > 0
✓ tokenEvent should not allow non owner to setMain
✓ tokenEvent should not allow setMain if not now <
_startTimeMain
✓ tokenEvent should not allow setMain if not _startTimeMain <
_endTimeMain
✓ tokenEvent should not allow setMain if not _minCapMain <=
_maxCapMain
✓ tokenEvent should not allow setMain if not _startTimeMain >
endTimePre
✓ tokenEvent should allow only owner to setMain (71ms)
✓ tokenEvent should not allow non owner to
setWhitelistedAddressPre
✓ tokenEvent should allow only owner to
setWhitelistedAddressPre (87ms)
✓ tokenEvent should not allow non owner to
setWhitelistedAddressMain
✓ tokenEvent should allow only owner to
setWhitelistedAddressMain (141ms)
✓ tokenEvent should not allow non owner to transferOwnership
✓ tokenEvent should allow only owner to transferOwnership
```

Contract: LendingBlockTokenEvent checkParameters

```
✓ should deploy the contract and send the initial tokens
(172ms)
✓ token name should be Lendingblock
✓ token symbol should be LND
✓ token decimals should be 18
✓ token transferableTime should be 1/1/19 (1546300800)
✓ token owner should be set
✓ token tokenEventAddress should be set
✓ token totalSupply should be 1 billion
✓ token of owner should be 1 billion
✓ token of tokenEvent should be 0
✓ tokenEvent owner should be set
✓ tokenEvent wallet should be set
```


- ✓ tokenEvent eventEnded should be false
- ✓ tokenEvent startTimePre should be not set
- ✓ tokenEvent startTimeMain should be not set
- ✓ tokenEvent endTimePre should be not set
- ✓ tokenEvent endTimeMain should be not set
- ✓ tokenEvent ratePre should be not set
- ✓ tokenEvent rateMain should be not set
- ✓ tokenEvent minCapMain should be not set
- ✓ tokenEvent maxCapPre should be not set
- ✓ tokenEvent maxCapMain should be not set
- ✓ tokenEvent weiTotal should be not set

Contract: LendingBlockTokenEvent eventFlow with token burn

- ✓ should deploy the contract and send the initial tokens (241ms)
- ✓ tokenEvent should not allow fallback before event
- ✓ tokenEvent should not allow joinPre before event
- ✓ tokenEvent should not allow joinMain before event
- ✓ tokenEvent should allow only owner to setWhitelistedAddressPre, setPre to prepare for pre round 1 (110ms)
- ✓ token should allow only owner to transfer to prepare for pre round 1 (69ms)
- ✓ tokenEvent should not allow fallback before event
- ✓ tokenEvent should not allow joinPre if not now >= startTimePre
- ✓ tokenEvent should not allow joinMain before event (169ms)
- ✓ tokenEvent should not allow joinPre if not msg.value >= minCapPre
- ✓ tokenEvent should not allow joinPre if not whitelistedAddressPre[msg.sender] == true
- ✓ tokenEvent should not allow joinPre if not contributedValue[msg.sender] <= maxCapPre
- ✓ tokenEvent should allow joinPre (44ms)
- ✓ tokenEvent should not allow joinPre if not contributedValue[msg.sender] <= maxCapPre
- ✓ tokenEvent should allow fallback (47ms)
- ✓ tokenEvent participants should receive their tokens (42ms)
- ✓ tokenEvent should not allow fallback when out of tokens

✓ tokenEvent should allow only owner to setWhitelistedAddressPre, setPre to prepare for pre round 2 (54ms)

✓ token should allow only owner to transfer to prepare for pre round 2 (180ms)

✓ tokenEvent should not allow fallback if not contributedValue[msg.sender] <= maxCapPre including previous rounds

✓ tokenEvent should allow fallback for pre round 2 (52ms)

✓ tokenEvent should route funds to wallet (91ms)

✓ tokenEvent should record weiTotal

✓ tokenEvent should allow only owner to setWhitelistedAddressMain, setMain to prepare for main round 1 (65ms)

✓ token should allow only owner to transfer to prepare for main round 1

✓ tokenEvent should not allow joinMain before event (168ms)

✓ tokenEvent should not allow joinMain if not msg.value >= minCapMain

✓ tokenEvent should not allow joinMain if not whitelistedAddressMain[msg.sender] == true

✓ tokenEvent should not allow joinMain if not contributedValue[msg.sender] <= maxCapMain

✓ tokenEvent should allow joinMain for main round 1 (59ms)

✓ tokenEvent should not allow joinMain if not contributedValue[msg.sender] <= maxCapMain

✓ tokenEvent should allow fallback for main round 1

✓ tokenEvent participants should receive their tokens (92ms)

✓ tokenEvent should allow only owner to setMain to prepare for main round 2 (173ms)

✓ tokenEvent should not allow fallback if not contributedValue[msg.sender] <= maxCapMain

✓ tokenEvent should not allow fallback if not contributedValue[msg.sender] <= maxCapMain including pre rounds

✓ tokenEvent should allow fallback for main round 2 (107ms)

✓ tokenEvent participants should receive their tokens (61ms)

✓ tokenEvent should have leftover tokens

✓ tokenEvent should route funds to wallet (74ms)

✓ tokenEvent should not allow endEvent if not now > endTimeMain (165ms)

✓ tokenEvent should not allow fallback after endTimeMain

- ✓ tokenEvent should not allow non owner to endEvent
- ✓ tokenEvent should allow only owner to endEvent (41ms)
- ✓ tokenEvent should burn leftover tokens
- ✓ tokenEvent should not allow setPre after eventEnded
- ✓ tokenEvent should not allow setMain after eventEnded
- ✓ tokenEvent should not allow setWhitelistedAddressPre after eventEnded
- ✓ tokenEvent should not allow setWhitelistedAddressMain after eventEnded
- ✓ tokenEvent should not allow endEvent after eventEnded

Contract: LendingBlockTokenEvent eventFlow with no token burn

- ✓ should deploy the contract and send the initial tokens (236ms)
- ✓ tokenEvent should allow only owner to setWhitelistedAddressPre, setPre to prepare for pre round 1 (50ms)
- ✓ token should allow only owner to transfer to prepare for pre round 1 (191ms)
- ✓ tokenEvent should allow fallback
- ✓ tokenEvent should allow only owner to setWhitelistedAddressMain, setMain to prepare for main round 1 (50ms)
- ✓ token should allow only owner to transfer to prepare for main round 1 (198ms)
- ✓ tokenEvent should allow fallback (190ms)
- ✓ tokenEvent should not have leftover tokens
- ✓ tokenEvent should allow only owner to endEvent
- ✓ tokenEvent should not burn tokens
- ✓ tokenEvent should route funds to wallet (75ms)
- ✓ tokenEvent should record weiTotal

112 passing (6s)

Solhint output

```
contracts/LendingBlockTokenEvent.sol
  1:17 warning  Compiler version must be
fixed                                             comp
iler-fixed
  4:8  error    Use double quotes for string
literals                                       quotes
```

```

5:8 error Use double quotes for string
literals quotes
6:8 error Use double quotes for string
literals quotes
17:1 error Definition must be surrounded with two
blank line indent two-lines-top-
level-separator
17:1 error Contract has 17 states declarations but
allowed no more than 15 max-states-count
18:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
18:2 error Expected indentation of 4 spaces but found
1 indent
20:2 error Expected indentation of 4 spaces but found
1 indent
20:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
21:2 error Expected indentation of 4 spaces but found
1 indent
21:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
22:2 error Expected indentation of 4 spaces but found
1 indent
22:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
23:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
23:2 error Expected indentation of 4 spaces but found
1 indent
24:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
24:2 error Expected indentation of 4 spaces but found
1 indent
25:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
25:2 error Expected indentation of 4 spaces but found
1 indent
26:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces

```

26:2	error	Expected indentation of 4 spaces but found indent
1		
27:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		
27:2	error	Expected indentation of 4 spaces but found indent
1		
28:2	error	Expected indentation of 4 spaces but found indent
1		
28:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		
29:2	error	Expected indentation of 4 spaces but found indent
1		
29:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		
30:2	error	Expected indentation of 4 spaces but found indent
1		
30:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		
31:2	error	Expected indentation of 4 spaces but found indent
1		
31:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		
32:2	error	Expected indentation of 4 spaces but found indent
1		
32:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		
33:2	error	Expected indentation of 4 spaces but found indent
1		
33:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		
34:2	error	Expected indentation of 4 spaces but found indent
1		
34:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		
35:2	error	Expected indentation of 4 spaces but found indent
1		
35:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs-
spaces		
and-spaces		

36:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
36:2	error	Expected indentation of 4 spaces but found 1 indent	
38:2	error	Expected indentation of 4 spaces but found 1 indent	
38:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
39:2	error	Expected indentation of 4 spaces but found 1 indent	
39:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
40:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
40:2	error	Expected indentation of 4 spaces but found 1 indent	
41:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
41:2	error	Expected indentation of 4 spaces but found 1 indent	
42:2	error	Expected indentation of 4 spaces but found 1 indent	
42:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
43:2	error	Expected indentation of 4 spaces but found 1 indent	
43:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
45:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
46:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
47:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
48:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-

48:2	error	Expected indentation of 4 spaces but found indent
1		
49:3	error	Expected indentation of 8 spaces but found indent
2		
49:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
50:3	error	Expected indentation of 8 spaces but found indent
2		
50:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
51:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
51:2	error	Expected indentation of 4 spaces but found indent
1		
53:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
54:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
55:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
56:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
57:2	error	Expected indentation of 4 spaces but found indent
1		
57:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
58:3	error	Expected indentation of 8 spaces but found indent
2		
58:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
59:3	error	Expected indentation of 8 spaces but found indent
2		
59:1	error	Mixed tabs and spaces. Allowed only no-mix-tabs- spaces and-spaces
60:2	error	Expected indentation of 4 spaces but found indent
1		

```

60:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
62:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
63:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
64:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
65:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
66:2 error Expected indentation of 4 spaces but found
1 indent
66:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
67:3 error Indentation is
incorrect
indent
67:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
68:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
68:3 error Indentation is
incorrect
indent
69:3 error Indentation is
incorrect
indent
69:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
70:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
70:2 error Indentation is
incorrect
indent
71:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces

```



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71:3 error Expected indentation of 8 spaces but found
2 indent
71:11 warning Avoid to make time-based decisions in your
business logic not-rely-on-time
72:3 error Expected indentation of 8 spaces but found
2 indent
72:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
72:11 warning Avoid to make time-based decisions in your
business logic not-rely-on-time
73:3 error Expected indentation of 8 spaces but found
2 indent
73:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
74:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
74:3 error Expected indentation of 8 spaces but found
2 indent
76:3 error Expected indentation of 8 spaces but found
2 indent
76:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
77:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
77:3 error Expected indentation of 8 spaces but found
2 indent
78:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
78:3 error Expected indentation of 8 spaces but found
2 indent
80:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
80:3 error Expected indentation of 8 spaces but found
2 indent
81:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
81:3 error Expected indentation of 8 spaces but found
2 indent

```

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83:3 error Expected indentation of 8 spaces but found
2 indent
83:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
84:3 error Expected indentation of 8 spaces but found
2 indent
84:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
86:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
86:3 error Expected indentation of 8 spaces but found
2 indent
87:2 error Expected indentation of 4 spaces but found
1 indent
87:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
89:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
90:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
91:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
92:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
93:2 error Expected indentation of 4 spaces but found
1 indent
93:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
94:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
94:3 error Indentation is
incorrect
indent
95:3 error Indentation is
incorrect
indent

```

```

95:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
96:3 error Indentation is
incorrect
indent
96:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
97:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
97:2 error Indentation is
incorrect
indent
98:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
98:3 error Expected indentation of 8 spaces but found
2 indent
98:11 warning Avoid to make time-based decisions in your
business logic not-rely-on-time
99:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
99:3 error Expected indentation of 8 spaces but found
2 indent
99:11 warning Avoid to make time-based decisions in your
business logic not-rely-on-time
100:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
100:3 error Expected indentation of 8 spaces but found
2 indent
101:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
101:3 error Expected indentation of 8 spaces but found
2 indent
103:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
103:3 error Expected indentation of 8 spaces but found
2 indent
104:3 error Expected indentation of 8 spaces but found
2 indent

```

104:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
105:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
105:3	error	Expected indentation of 8 spaces but found
2		indent
107:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
107:3	error	Expected indentation of 8 spaces but found
2		indent
108:3	error	Expected indentation of 8 spaces but found
2		indent
108:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
110:3	error	Expected indentation of 8 spaces but found
2		indent
110:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
111:3	error	Expected indentation of 8 spaces but found
2		indent
111:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
113:3	error	Expected indentation of 8 spaces but found
2		indent
113:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
114:2	error	Expected indentation of 4 spaces but found
1		indent
114:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
116:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
117:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
118:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		

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119:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
119:2 error Expected indentation of 4 spaces but found
1 indent
120:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
120:3 error Expected indentation of 8 spaces but found
2 indent
121:2 error Expected indentation of 4 spaces but found
1 indent
121:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
123:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
124:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
125:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
126:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
127:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
128:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
129:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
130:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
131:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
132:2 error Function order is incorrect, external
function can not go after internal function func-order
132:2 error Expected indentation of 4 spaces but found
1 indent

```

```

132:1  error    Mixed tabs and spaces. Allowed only
spaces                                no-mix-tabs-
and-spaces
132:2  warning  Event and function names must be
different                              no-simple-
event-func-name
133:1  error    Mixed tabs and spaces. Allowed only
spaces                                no-mix-tabs-
and-spaces
133:3  error    Indentation is
incorrect
      indent
134:3  error    Indentation is
incorrect
      indent
134:1  error    Mixed tabs and spaces. Allowed only
spaces                                no-mix-tabs-
and-spaces
135:1  error    Mixed tabs and spaces. Allowed only
spaces                                no-mix-tabs-
and-spaces
135:3  error    Indentation is
incorrect
      indent
136:1  error    Mixed tabs and spaces. Allowed only
spaces                                no-mix-tabs-
and-spaces
136:3  error    Indentation is
incorrect
      indent
137:1  error    Mixed tabs and spaces. Allowed only
spaces                                no-mix-tabs-
and-spaces
137:3  error    Indentation is
incorrect
      indent
138:1  error    Mixed tabs and spaces. Allowed only
spaces                                no-mix-tabs-
and-spaces
138:2  error    Indentation is
incorrect
      indent
139:3  error    Indentation is
incorrect
      indent

```

```

139:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
140:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
140:3 error Indentation is
incorrect
indent
141:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
141:3 error Indentation is
incorrect
indent
142:2 error Indentation is
incorrect
indent
142:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
143:11 warning Avoid to make time-based decisions in your
business logic not-rely-on-time
143:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
143:3 error Expected indentation of 8 spaces but found
2 indent
144:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
144:3 error Expected indentation of 8 spaces but found
2 indent
145:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
145:3 error Expected indentation of 8 spaces but found
2 indent
146:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
146:3 error Expected indentation of 8 spaces but found
2 indent
147:3 error Expected indentation of 8 spaces but found
2 indent

```

147:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
148:3	error	Expected indentation of 8 spaces but found
2		indent
148:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
149:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
149:3	error	Expected indentation of 8 spaces but found
2		indent
150:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
150:3	error	Expected indentation of 8 spaces but found
2		indent
151:3	error	Expected indentation of 8 spaces but found
2		indent
151:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
152:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
152:2	error	Expected indentation of 4 spaces but found
1		indent
154:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
155:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
156:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
157:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
158:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
159:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		


```

160:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
161:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
162:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
163:2 error Expected indentation of 4 spaces but found
1 indent
163:2 error Function order is incorrect, external
function can not go after internal function func-order
163:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
163:2 warning Event and function names must be
different no-simple-
event-func-name
164:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
164:3 error Indentation is
incorrect
indent
165:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
165:3 error Indentation is
incorrect
indent
166:3 error Indentation is
incorrect
indent
166:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
167:3 error Indentation is
incorrect
indent
167:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
168:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces

```

```

168:3   error   Indentation is
incorrect
      indent
169:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
169:2   error   Indentation is
incorrect
      indent
170:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
170:3   error   Indentation is
incorrect
      indent
171:3   error   Indentation is
incorrect
      indent
171:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
172:3   error   Indentation is
incorrect
      indent
172:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
173:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
173:2   error   Indentation is
incorrect
      indent
174:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
174:11  warning  Avoid to make time-based decisions in your
business logic                             not-rely-on-time
174:3   error   Expected indentation of 8 spaces but found
2                                           indent
175:3   error   Expected indentation of 8 spaces but found
2                                           indent
175:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces

```

176:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
176:3	error	Expected indentation of 8 spaces but found 2 indent	
177:3	error	Expected indentation of 8 spaces but found 2 indent	
177:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
178:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
178:3	error	Expected indentation of 8 spaces but found 2 indent	
179:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
179:3	error	Expected indentation of 8 spaces but found 2 indent	
180:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
180:3	error	Expected indentation of 8 spaces but found 2 indent	
181:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
181:3	error	Expected indentation of 8 spaces but found 2 indent	
182:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
182:3	error	Expected indentation of 8 spaces but found 2 indent	
183:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-
183:3	error	Expected indentation of 8 spaces but found 2 indent	
184:2	error	Expected indentation of 4 spaces but found 1 indent	
184:1	error	Mixed tabs and spaces. Allowed only spaces and-spaces	no-mix-tabs-

```

186:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
187:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
188:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
189:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
190:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
191:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
192:2 error Function order is incorrect, external
function can not go after internal function func-order
192:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
192:2 error Expected indentation of 4 spaces but found
1 indent
193:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
193:3 error Indentation is
incorrect
indent
194:3 error Indentation is
incorrect
indent
194:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
195:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
195:3 error Indentation is
incorrect
indent
196:2 error Indentation is
incorrect
indent

```

196:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
197:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
197:3	error	Expected indentation of 8 spaces but found
2		indent
198:4	error	Expected indentation of 12 spaces but found
3		indent
198:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
199:4	error	Expected indentation of 12 spaces but found
3		indent
199:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
200:3	error	Expected indentation of 8 spaces but found
2		indent
200:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
201:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
201:2	error	Expected indentation of 4 spaces but found
1		indent
203:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
204:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
205:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
206:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
207:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
208:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		

```

209:2 error Expected indentation of 4 spaces but found
1 indent
209:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
209:2 error Function order is incorrect, external
function can not go after internal function func-order
210:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
210:3 error Indentation is
incorrect indent
211:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
211:3 error Indentation is
incorrect indent
212:3 error Indentation is
incorrect indent
212:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
213:2 error Indentation is
incorrect indent
213:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
214:3 error Expected indentation of 8 spaces but found
2 indent
214:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
215:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
215:4 error Expected indentation of 12 spaces but found
3 indent
216:4 error Expected indentation of 12 spaces but found
3 indent
216:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces

```

217:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
217:3	error	Expected indentation of 8 spaces but found
2		indent
218:2	error	Expected indentation of 4 spaces but found
1		indent
218:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
220:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
221:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
222:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
223:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
224:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
225:2	error	Function order is incorrect, external
function can not go after internal function		func-order
225:2	error	Expected indentation of 4 spaces but found
1		indent
225:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
226:3	error	Indentation is
incorrect		
indent		
226:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
227:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		
227:3	error	Indentation is
incorrect		
indent		
228:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-
and-spaces		

```

228:3   error   Indentation is
incorrect
      indent
229:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
229:2   error   Indentation is
incorrect
      indent
230:3   error   Expected indentation of 8 spaces but found
2                                           indent
230:11  warning  Avoid to make time-based decisions in your
business logic                             not-rely-on-time
230:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
231:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
231:3   error   Expected indentation of 8 spaces but found
2                                           indent
232:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
232:3   error   Expected indentation of 8 spaces but found
2                                           indent
233:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
233:3   error   Expected indentation of 8 spaces but found
2                                           indent
234:4   error   Expected indentation of 12 spaces but found
3                                           indent
234:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
235:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces
235:3   error   Expected indentation of 8 spaces but found
2                                           indent
236:3   error   Expected indentation of 8 spaces but found
2                                           indent
236:1   error   Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-
and-spaces

```



```

237:2 error Expected indentation of 4 spaces but found
1 indent
237:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
239:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
240:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
241:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
242:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
243:2 error Expected indentation of 4 spaces but found
1 indent
243:2 error Function order is incorrect, fallback
function can not go after internal function func-order
243:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
244:7 warning Avoid to make time-based decisions in your
business logic not-rely-on-time
244:3 error Expected indentation of 8 spaces but found
2 indent
244:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
245:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
245:4 error Expected indentation of 12 spaces but found
3 indent
246:3 error Expected indentation of 8 spaces but found
2 indent
246:14 warning Avoid to make time-based decisions in your
business logic not-rely-on-time
246:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
247:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces

```

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247:4 error Expected indentation of 12 spaces but found
3 indent
248:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
248:3 error Expected indentation of 8 spaces but found
2 indent
249:4 error Expected indentation of 12 spaces but found
3 indent
249:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
250:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces
250:3 error Expected indentation of 8 spaces but found
2 indent
251:2 error Expected indentation of 4 spaces but found
1 indent
251:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-
and-spaces

contracts/LendingBlockToken.sol
1:17 warning Compiler version must be
fixed compil
er-fixed
4:8 error Use double quotes for string
literals quotes
5:8 error Use double quotes for string
literals quotes
6:8 error Use double quotes for string
literals quotes
16:1 error Definition must be surrounded with two blank
line indent two-lines-top-level-
separator
17:2 error Expected indentation of 4 spaces but found
1 indent
17:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
17:25 error Constant name must be in capitalized
SNAKE_CASE const-name-
snakecase
18:25 error Constant name must be in capitalized
SNAKE_CASE const-name-
snakecase

```

```

18:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
18:2 error Expected indentation of 4 spaces but found
1 indent
19:2 error Expected indentation of 4 spaces but found
1 indent
19:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
19:24 error Constant name must be in capitalized
SNAKE_CASE const-name-
snakecase
20:2 error Expected indentation of 4 spaces but found
1 indent
20:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
21:2 error Expected indentation of 4 spaces but found
1 indent
21:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
23:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
24:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
25:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
26:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
27:2 error Expected indentation of 4 spaces but found
1 indent
27:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
28:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
28:3 error Expected indentation of 8 spaces but found
2 indent
28:7 warning Avoid to make time-based decisions in your
business logic not-rely-on-time

```

29:4	error	Expected indentation of 12 spaces but found
3		indent
29:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
30:3	error	Expected indentation of 8 spaces but found
2		indent
30:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
31:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
31:3	error	Expected indentation of 8 spaces but found
2		indent
32:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
32:2	error	Expected indentation of 4 spaces but found
1		indent
34:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
35:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
36:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
37:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
38:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
39:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
40:2	error	Expected indentation of 4 spaces but found
1		indent
40:1	error	Mixed tabs and spaces. Allowed only
spaces		no-mix-tabs-and-
spaces		
41:3	error	Expected indentation of 8 spaces but found
2		indent

```

41:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
42:3 error Expected indentation of 8 spaces but found
2 indent
42:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
43:3 error Expected indentation of 8 spaces but found
2 indent
43:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
44:3 error Expected indentation of 8 spaces but found
2 indent
44:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
45:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
45:3 error Expected indentation of 8 spaces but found
2 indent
46:2 error Expected indentation of 4 spaces but found
1 indent
46:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
48:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
49:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
50:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
51:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
52:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
53:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces

```

```

54:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
54:2 error Expected indentation of 4 spaces but found
1 indent
55:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
55:3 error Indentation is
incorrect
indent
56:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
56:3 error Indentation is
incorrect
indent
57:3 error Indentation is
incorrect
indent
57:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
58:2 error Indentation is
incorrect
indent
58:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
59:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
59:3 error Expected indentation of 8 spaces but found
2 indent
60:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
60:2 error Expected indentation of 4 spaces but found
1 indent
62:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
63:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces

```

```

64:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
65:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
66:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
67:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
68:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
69:2 error Expected indentation of 4 spaces but found
1 indent
69:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
70:3 error Indentation is
incorrect indent
70:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
71:3 error Indentation is
incorrect indent
71:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
72:3 error Indentation is
incorrect indent
72:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
73:2 error Indentation is
incorrect indent
73:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces
74:1 error Mixed tabs and spaces. Allowed only
spaces no-mix-tabs-and-
spaces

```

```

74:3   error   Expected indentation of 8 spaces but found
2      indent
75:2   error   Expected indentation of 4 spaces but found
1      indent
75:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
77:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
78:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
79:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
80:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
81:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
82:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
83:2   error   Expected indentation of 4 spaces but found
1      indent
83:2   error   Function order is incorrect, external
function can not go after public function func-order
83:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
84:3   error   Indentation is
incorrect
      indent
84:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
85:3   error   Indentation is
incorrect
      indent
85:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces
86:1   error   Mixed tabs and spaces. Allowed only
spaces                               no-mix-tabs-and-
spaces

```



```

86:2    error    Indentation is
incorrect
      indent
87:1    error    Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-and-
spaces
87:3    error    Expected indentation of 8 spaces but found
2                                           indent
88:3    error    Expected indentation of 8 spaces but found
2                                           indent
88:1    error    Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-and-
spaces
89:1    error    Mixed tabs and spaces. Allowed only
spaces                                     no-mix-tabs-and-
spaces
89:2    error    Expected indentation of 4 spaces but found
1                                           indent

contracts/Migrations.sol
  1:17  warning  Compiler version must be
fixed                                     compiler-fixed
  3:1   error    Definition must be surrounded with two blank
line indent two-lines-top-level-separator
  4:3   error    Expected indentation of 4 spaces but found
2                                           indent
  5:3   error    Expected indentation of 4 spaces but found
2                                           indent
  5:15  error    Variable name must be in
mixedCase                                var-name-mixedcase
  7:3   error    Expected indentation of 4 spaces but found
2                                           indent
  8:5   error    Expected indentation of 8 spaces but found
4                                           indent
  9:3   error    Expected indentation of 4 spaces but found
2                                           indent
 11:3   error    Expected indentation of 4 spaces but found
2                                           indent
 12:5   error    Expected indentation of 8 spaces but found
4                                           indent
 13:3   error    Expected indentation of 4 spaces but found
2                                           indent
 15:3   error    Expected indentation of 4 spaces but found
2                                           indent
 16:5   error    Expected indentation of 8 spaces but found
4                                           indent

```

```

17:3  error    Expected indentation of 4 spaces but found
2      indent
19:3  error    Expected indentation of 4 spaces but found
2      indent
19:28 error    Function param name must be in
mixedCase      func-param-name-mixedcase
20:5  error    Expected indentation of 8 spaces but found
4      indent
21:5  error    Expected indentation of 8 spaces but found
4      indent
22:3  error    Expected indentation of 4 spaces but found
2      indent

✘ 528 problems (513 errors, 15 warnings)

```

Solium output

```

contracts/LendingBlockToken.sol
4:7  error    "zeppelin-
solidity/contracts/ownership/Ownable.sol": Import statements
must use double quotes only.      quotes
5:7  error    "zeppelin-
solidity/contracts/token/BurnableToken.sol": Import statements
must use double quotes only.      quotes
6:7  error    "zeppelin-
solidity/contracts/token/StandardToken.sol": Import statements
must use double quotes only.      quotes
17:1  error    Only use indent of 4 spaces.
indentation
18:1  error    Only use indent of 4 spaces.
indentation
19:1  error    Only use indent of 4 spaces.
indentation
20:1  error    Only use indent of 4 spaces.
indentation
21:1  error    Only use indent of 4 spaces.
indentation
27:1  error    Only use indent of 4 spaces.
indentation
28:6  warning   Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members

```

```

32:0    error    Only use indent of 4 spaces.
indentation
40:1    error    Only use indent of 4 spaces.
indentation
46:0    error    Only use indent of 4 spaces.
indentation
54:1    error    Only use indent of 4 spaces.
indentation
60:0    error    Only use indent of 4 spaces.
indentation
69:1    error    Only use indent of 4 spaces.
indentation
75:0    error    Only use indent of 4 spaces.
indentation
83:1    error    Only use indent of 4 spaces.
indentation
89:0    error    Only use indent of 4 spaces.
indentation

contracts/LendingBlockTokenEvent.sol
4:7      error    "zeppelin-
solidity/contracts/math/SafeMath.sol": Import statements must
use double quotes only.      quotes
5:7      error    "zeppelin-
solidity/contracts/ownership/Ownable.sol": Import statements
must use double quotes only.      quotes
6:7      error    "./LendingBlockToken.sol": Import
statements must use double quotes only.
quotes
18:1     error    Only use indent of 4 spaces.
indentation
20:1     error    Only use indent of 4 spaces.
indentation
21:1     error    Only use indent of 4 spaces.
indentation
22:1     error    Only use indent of 4 spaces.
indentation
23:1     error    Only use indent of 4 spaces.
indentation
24:1     error    Only use indent of 4 spaces.
indentation
25:1     error    Only use indent of 4 spaces.
indentation
26:1     error    Only use indent of 4 spaces.
indentation
27:1     error    Only use indent of 4 spaces.
indentation

```

```

28:1      error      Only use indent of 4 spaces.
indentation
29:1      error      Only use indent of 4 spaces.
indentation
30:1      error      Only use indent of 4 spaces.
indentation
31:1      error      Only use indent of 4 spaces.
indentation
32:1      error      Only use indent of 4 spaces.
indentation
33:1      error      Only use indent of 4 spaces.
indentation
34:1      error      Only use indent of 4 spaces.
indentation
35:1      error      Only use indent of 4 spaces.
indentation
36:1      error      Only use indent of 4 spaces.
indentation
38:1      error      Only use indent of 4 spaces.
indentation
39:1      error      Only use indent of 4 spaces.
indentation
40:1      error      Only use indent of 4 spaces.
indentation
41:1      error      Only use indent of 4 spaces.
indentation
42:1      error      Only use indent of 4 spaces.
indentation
43:1      error      Only use indent of 4 spaces.
indentation
48:1      error      Only use indent of 4 spaces.
indentation
51:0      error      Only use indent of 4 spaces.
indentation
57:1      error      Only use indent of 4 spaces.
indentation
60:0      error      Only use indent of 4 spaces.
indentation
66:1      error      Only use indent of 4 spaces.
indentation
71:10     warning     Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members
72:10     warning     Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members

```

```

87:0      error      Only use indent of 4 spaces.
indentation
93:1      error      Only use indent of 4 spaces.
indentation
98:10     warning     Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members
99:10     warning     Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members
114:0     error      Only use indent of 4 spaces.
indentation
119:1     error      Only use indent of 4 spaces.
indentation
121:0     error      Only use indent of 4 spaces.
indentation
132:1     error      Only use indent of 4 spaces.
indentation
143:10    warning     Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members
152:0     error      Only use indent of 4 spaces.
indentation
163:1     error      Only use indent of 4 spaces.
indentation
174:10    warning     Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members
184:0     error      Only use indent of 4 spaces.
indentation
192:1     error      Only use indent of 4 spaces.
indentation
201:0     error      Only use indent of 4 spaces.
indentation
209:1     error      Only use indent of 4 spaces.
indentation
218:0     error      Only use indent of 4 spaces.
indentation
225:1     error      Only use indent of 4 spaces.
indentation
230:10    warning     Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members
237:0     error      Only use indent of 4 spaces.
indentation
243:1     error      Only use indent of 4 spaces.
indentation

```

```
244:6      warning      Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members
246:13     warning      Avoid using 'now' (alias to
'block.timestamp').
security/no-block-members
251:0      error         Only use indent of 4 spaces.
indentation

contracts/Migrations.sol
4:2       error         Only use indent of 4 spaces.      indentation
5:2       error         Only use indent of 4 spaces.      indentation
7:2       error         Only use indent of 4 spaces.      indentation
9:0       error         Only use indent of 4 spaces.      indentation
11:2      error         Only use indent of 4 spaces.      indentation
13:0      error         Only use indent of 4 spaces.      indentation
15:2      error         Only use indent of 4 spaces.      indentation
17:0      error         Only use indent of 4 spaces.      indentation
19:2      error         Only use indent of 4 spaces.      indentation
22:0      error         Only use indent of 4 spaces.      indentation
```

✘ 77 errors, 10 warnings found.