

0.7

BabySwap Process Quality Review

Score: 50%

Overview

This is a [BabySwap](#) Process Quality Review completed on 13 Oct 2021. It was performed using the Process Review process (version 0.7.3) and is documented [here](#). The review was performed by Nick of DeFiSafety. Check out our [Telegram](#).

The final score of the review is **50%**, a **FAIL**. The breakdown of the scoring is in [Scoring Appendix](#). For our purposes, a pass is **70%**.

Summary of the Process

Very simply, the review looks for the following declarations from the developer's site. With these declarations, it is reasonable to trust the smart contracts.

- **Here are my smart contracts on the blockchain**
- **Here is the documentation that explains what my smart contracts do**
- **Here are the tests I ran to verify my smart contract**
- **Here are the audit(s) performed on my code by third party experts**
- **Here are the admin controls and strategies**

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Chain

This section indicates the blockchains used by this protocol. This report covers all of the blockchains upon which the protocol is deployed.

 **Chain:** Binance Smart Chain

Guidance:

Ethereum
Binance Smart Chain
Polygon
Avalanche
Terra
Celo
Arbitrum
Solana

Code and Team

This section looks at the code deployed on the Mainnet that gets reviewed and its corresponding software repository. The document explaining these questions is [here](#). This review will answer the following questions:

- 1) Are the executing code addresses readily available? (%)
- 2) Is the code actively being used? (%)
- 3) Is there a public software repository? (Y/N)
- 4) Is there a development history visible? (%)
- 5) Is the team public (not anonymous)? (Y/N)

1) Are the executing code addresses readily available? (%)

 **Answer:** 100%

They are available at <https://docs.babyswap.finance/developers/smart-contracts>, as indicated in the [Appendix](#).

Guidance:

- 100% Clearly labelled and on website, docs or repo, quick to find
- 70% Clearly labelled and on website, docs or repo but takes a bit of looking
- 40% Addresses in mainnet.json, in discord or sub graph, etc
- 20% Address found but labeling not clear or easy to find
- 0% Executing addresses could not be found

2) Is the code actively being used? (%)

 Answer: 100%

Activity is far more than 10 transactions a day on contract [BabySwap: Router](#), as indicated in the [Appendix](#).

Guidance:

- 100% More than 10 transactions a day
- 70% More than 10 transactions a week
- 40% More than 10 transactions a month
- 10% Less than 10 transactions a month
- 0% No activity

3) Is there a public software repository? (Y/N)

 Answer: Yes

GitHub: <https://github.com/babyswap>

Is there a public software repository with the code at a minimum, but also normally test and scripts. Even if the repository was created just to hold the files and has just 1 transaction, it gets a "Yes". For teams with private repositories, this answer is "No".

4) Is there a development history visible? (%)

 Answer: 0%

At just 19 commits and 1 branch, it's clear BabySwap's development history is in its infancy.

This metric checks if the software repository demonstrates a strong steady history. This is normally demonstrated by commits, branches and releases in a software repository. A healthy history demonstrates a history of more than a month (at a minimum).

Guidance:

100%	Any one of 100+ commits, 10+branches
70%	Any one of 70+ commits, 7+branches
50%	Any one of 50+ commits, 5+branches
30%	Any one of 30+ commits, 3+branches
0%	Less than 2 branches or less than 30 commits

How to improve this score:

Continue to test and perform other verification activities after deployment, including routine maintenance updating to new releases of testing and deployment tools. A public development history indicates clearly to the public the level of continued investment and activity by the developers on the application. This gives a level of security and faith in the application.

5) Is the team public (not anonymous)? (Y/N)

 **Answer:** No

For a "Yes" in this question, the real names of some team members must be public on the website or other documentation (LinkedIn, etc). If the team is anonymous, then this question is a "No".

Documentation

This section looks at the software documentation. The document explaining these questions is [here](#).

Required questions are;

- 6) Is there a whitepaper? (Y/N)
- 7) Are the basic software functions documented? (Y/N)
- 8) Does the software function documentation fully (100%) cover the deployed contracts? (%)
- 9) Are there sufficiently detailed comments for all functions within the deployed contract code (%)
- 10) Is it possible to trace from software documentation to the implementation in code (%)

6) Is there a whitepaper? (Y/N)

 **Answer:** Yes

Location: <https://docs.babyswap.finance/>

7) Are the basic software functions documented? (Y/N)

 **Answer:** No

There are no basic software functions identified in BabySwap's [documentation](#).

8) Does the software function documentation fully (100%) cover the deployed contracts? (%)

 **Answer:** 0%

As the software functions are only identified, the documentation goes no distance in covering the deployed contracts. A detailed breakdown of what each line of contract code is necessary.

Guidance:

- 100% All contracts and functions documented
- 80% Only the major functions documented
- 79-1% Estimate of the level of software documentation
- 0% No software documentation

How to improve this score:

This score can be improved by adding content to the software functions document such that it comprehensively covers the requirements. For guidance, refer to the [SecurEth System Description Document](#). Using tools that aid traceability detection will help.

9) Are there sufficiently detailed comments for all functions within the deployed contract code (%)

 **Answer:** 24%

Code examples are in the [Appendix](#). As per the [SLOC](#), there is 24% commenting to code (CtC).

The Comments to Code (CtC) ratio is the primary metric for this score.

Guidance:

- 100% CtC > 100 Useful comments consistently on all code
- 90-70% CtC > 70 Useful comment on most code
- 60-20% CtC > 20 Some useful commenting
- 0% CtC < 20 No useful commenting

How to improve this score

This score can improve by adding comments to the deployed code such that it comprehensively covers the code. For guidance, refer to the [SecurEth Software Requirements](#).

10) Is it possible to trace from software documentation to the implementation in code (%)

 Answer: 0%

As there are no software functions documented in the BabySwap documentation, we cannot evaluate their traceability as to the functions' implementations in the protocol's source code.

Guidance:

- 100% Clear explicit traceability between code and documentation at a requirement level for all code
- 60% Clear association between code and documents via non explicit traceability
- 40% Documentation lists all the functions and describes their functions
- 0% No connection between documentation and code

How to improve this score:

This score can improve by adding traceability from documentation to code such that it is clear where each outlined function is coded in the source code. For reference, check the SecurEth guidelines on [traceability](#).

Testing

This section looks at the software testing available. It is explained in this [document](#). This section answers the following questions;

- 11) Full test suite (Covers all the deployed code) (%)
- 12) Code coverage (Covers all the deployed lines of code, or explains misses) (%)
- 13) Scripts and instructions to run the tests (Y/N)
- 14) Report of the results (%)
- 15) Formal Verification test done (%)
- 16) Stress Testing environment (%)

11) Is there a Full test suite? (%)

 Answer: 80%

Code examples are in the [Appendix](#). As per the [SLOC](#), there is 92% testing to code (TtC).

This score is guided by the Test to Code ratio (TtC). Generally a good test to code ratio is over 100%. However the reviewers best judgement is the final deciding factor.

Guidance:

- 100% TtC > 120% Both unit and system test visible

- 80% TtC > 80% Both unit and system test visible
- 40% TtC < 80% Some tests visible
- 0% No tests obvious

How to improve this score:

This score can be improved by adding tests to fully cover the code. Document what is covered by traceability or test results in the software repository.

12) Code coverage (Covers all the deployed lines of code, or explains misses) (%)

 **Answer:** 50%

No code coverage testing was found, but there's clearly a robust degree of testing that has been done.

Guidance:

- 100% Documented full coverage
- 99-51% Value of test coverage from documented results
- 50% No indication of code coverage but clearly there is a reasonably complete set of tests
- 30% Some tests evident but not complete
- 0% No test for coverage seen

How to improve this score:

This score can be improved by adding tests that achieve full code coverage. A clear report and scripts in the software repository will guarantee a high score.

13) Scripts and instructions to run the tests (Y/N)

 **Answer:** Yes

Scripts: <https://github.com/babyswap/baby-swap-contract/tree/main/scripts>.

14) Report of the results (%)

 **Answer:** 0%

No test report is evident.

Guidance:

- 100% Detailed test report as described below
- 70% GitHub code coverage report visible
- 0% No test report evident

How to improve this score

Add a report with the results. The test scripts should generate the report or elements of it.

15) Formal Verification test done (%)

 **Answer:** 0%

BabySwap has not undergone formal verification.

16) Stress Testing environment (%)

 **Answer:** 0%

No evidence of BabySwap's deployment to a testnet was found.

Security

This section looks at the 3rd party software audits done. It is explained in this [document](#). This section answers the following questions;

- 17) Did 3rd Party audits take place? (%)
- 18) Is the bounty value acceptably high?

17) Did 3rd Party audits take place? (%)

 **Answer:** 100%

[Multiple audits](#) have taken place on BabySwap, and each one was conducted then resolved before the relevant contract was deployed.

Guidance:

- 100% Multiple Audits performed before deployment and results public and implemented or not required
- 90% Single audit performed before deployment and results public and implemented or not required

- 70% Audit(s) performed after deployment and no changes required. Audit report is public
- 50% Audit(s) performed after deployment and changes needed but not implemented
- 20% No audit performed
- 0% Audit Performed after deployment, existence is public, report is not public and no improvements deployed OR smart contract address' not found, (where question 1 is 0%)

Deduct 25% if code is in a private repo and no note from auditors that audit is applicable to deployed code

18) Is the bounty value acceptably high (%)

 **Answer:** 0%

No bug bounty information was found.

Guidance:

- 100% Bounty is 10% TVL or at least \$1M AND active program (see below)
- 90% Bounty is 5% TVL or at least 500k AND active program
- 80% Bounty is 5% TVL or at least 500k
- 70% Bounty is 100k or over AND active program
- 60% Bounty is 100k or over
- 50% Bounty is 50k or over AND active program
- 40% Bounty is 50k or over
- 20% Bug bounty program bounty is less than 50k
- 0% No bug bounty program offered

An active program means that a third party (such as Immunefi) is actively driving hackers to the site. An inactive program would be static mentions on the docs.

Access Controls

This section covers the documentation of special access controls for a DeFi protocol. The admin access controls are the contracts that allow updating contracts or coefficients in the protocol. Since these contracts can allow the protocol admins to "change the rules", complete disclosure of capabilities is vital for user's transparency. It is explained in this [document](#). The questions this section asks are as follow;

- 19) Can a user clearly and quickly find the status of the admin controls?
- 20) Is the information clear and complete?
- 21) Is the information in non-technical terms that pertain to the investments?
- 22) Is there Pause Control documentation including records of tests?

19) Can a user clearly and quickly find the status of the access controls (%)

 **Answer:** 0%

No admin control information was found.

Guidance:

- 100% Clearly labelled and on website, docs or repo, quick to find
- 70% Clearly labelled and on website, docs or repo but takes a bit of looking
- 40% Access control docs in multiple places and not well labelled
- 20% Access control docs in multiple places and not labelled
- 0% Admin Control information could not be found

20) Is the information clear and complete (%)

 **Answer:** 0%

There was no information.

Guidance:

All the contracts are immutable -- 100% OR

- a) All contracts are clearly labelled as upgradeable (or not) -- 30% AND
- b) The type of ownership is clearly indicated (OnlyOwner / MultiSig / Defined Roles) -- 30% AND
- c) The capabilities for change in the contracts are described -- 30%

How to improve this score:

Create a document that covers the items described above. An [example](#) is enclosed.

21) Is the information in non-technical terms that pertain to the investments (%)

 **Answer:** 0%

No information was found.

Guidance:

- 100% All the contracts are immutable
- 90% Description relates to investments safety and updates in clear, complete non-software language
- 30% Description all in software specific language
- 0% No admin control information could not be found

How to improve this score:

Create a document that covers the items described above in plain language that investors can understand. An [example](#) is enclosed.

22) Is there Pause Control documentation including records of tests (%)

 **Answer:** 0%

No pause control information was found.

Guidance:

100% All the contracts are immutable or no pause control needed and this is explained OR

100% Pause control(s) are clearly documented and there is records of at least one test within 3 months

80% Pause control(s) explained clearly but no evidence of regular tests

40% Pause controls mentioned with no detail on capability or tests

0% Pause control not documented or explained

How to improve this score:

Create a document that covers the items described above in plain language that investors can understand. An [example](#) is enclosed.

Appendices

Author Details

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I started with Ethereum just before the DAO and that was a wonderful education. It showed the importance of code quality. The second Parity hack also showed the importance of good process. Here my aviation background offers some value. Aerospace knows how to make reliable code using quality processes.

I was coaxed to go to EthDenver 2018 and there I started [SecuEth.org](#) with Bryant and Roman. We created guidelines on good processes for blockchain code development. We got [EthFoundation funding](#) to assist in their development.

Process Quality Reviews are an extension of the SecurEth guidelines that will further increase the quality processes in Solidity and Vyper development.

DeFiSafety is my full time gig and we are working on funding vehicles for a permanent staff.

Scoring Appendix

	Total	BabySwap	
	Points	Answer	Points
PQ Audit Scoring Matrix (v0.7)			
Total	260		129.7
Code and Team			50%
1) Are the executing code addresses readily available? (%)	20	100%	20
2) Is the code actively being used? (%)	5	100%	5
3) Is there a public software repository? (Y/N)	5	y	5
4) Is there a development history visible? (%)	5	0%	0
5) Is the team public (not anonymous)? (Y/N)	15	n	0
Code Documentation			
6) Is there a whitepaper? (Y/N)	5	y	5
7) Are the basic software functions documented? (Y/N)	10	n	0
8) Does the software function documentation fully (100%) cover the functions?	15	0%	0
9) Are there sufficiently detailed comments for all functions with logic?	5	24%	1.2
10) Is it possible to trace from software documentation to the source code?	10	0%	0
Testing			
11) Full test suite (Covers all the deployed code) (%)	20	80%	16
12) Code coverage (Covers all the deployed lines of code, or entire functions?) (%)	5	50%	2.5
13) Scripts and instructions to run the tests? (Y/N)	5	y	5
14) Report of the results (%)	10	0%	0
15) Formal Verification test done (%)	5	0%	0
16) Stress Testing environment (%)	5	0%	0
Security			
17) Did 3rd Party audits take place? (%)	70	100%	70
18) Is the bug bounty acceptable high? (%)	10	0%	0
Access Controls			
19) Can a user clearly and quickly find the status of the admin account?	5	0%	0
20) Is the information clear and complete	10	0%	0
21) Is the information in non-technical terms	10	0%	0
22) Is there Pause Control documentation including records of use?	10	0%	0
Section Scoring			
Code and Team	50	60%	
Documentation	45	14%	
Testing	50	47%	
Security	80	88%	
Access Controls	35	0%	

Executing Code Appendix

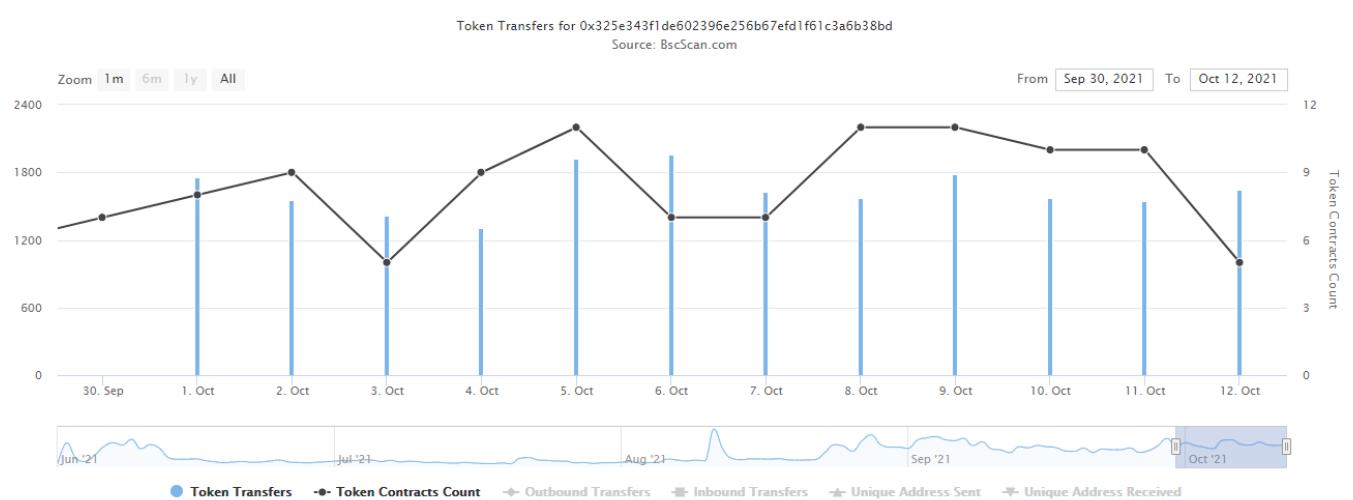
Main contracts

The following links will take you to the BscScan page for BabySwap's main smart contracts.

- BabySwap: Main Staking Contract/MasterChef
- BabySwap: Factory

- BabySwap: Router

Code Used Appendix



Example Code Appendix

```

1 contract BabyRouter is IBabyRouter02, Ownable {
2     using SafeMath for uint;
3
4     address public immutable override factory;
5     address public immutable override WETH;
6     address public swapMining;
7
8     modifier ensure(uint deadline) {
9         require(deadline >= block.timestamp, 'BabyRouter: EXPIRED');
10    _;
11 }
12
13    function setSwapMining(address _swapMininng) public onlyOwner {
14        swapMining = _swapMininng;
15    }
16
17    constructor(address _factory, address _WETH) {
18        factory = _factory;
19        WETH = _WETH;
20    }
21
22    receive() external payable {
23        assert(msg.sender == WETH); // only accept ETH via fallback from the WETH contract
24    }
25
26    // **** ADD LIQUIDITY ****
27    function _addLiquidity(
28

```

```

address tokenA,
address tokenB,
uint amountADesired,
uint amountBDesired,
uint amountAMin,
uint amountBMin
) internal virtual returns (uint amountA, uint amountB) {
    // create the pair if it doesn't exist yet
    if (IBabyFactory(factory).getPair(tokenA, tokenB) == address(0)) {
        IBabyFactory(factory).createPair(tokenA, tokenB);
    }
    (uint reserveA, uint reserveB) = BabyLibrary.getReserves(factory, tokenA, tokenB);
    if (reserveA == 0 && reserveB == 0) {
        (amountA, amountB) = (amountADesired, amountBDesired);
    } else {
        uint amountBOptimal = BabyLibrary.quote(amountADesired, reserveA, reserveB);
        if (amountBOptimal <= amountBDesired) {
            require(amountBOptimal >= amountBMin, 'BabyRouter: INSUFFICIENT_B_AMOUNT')
            (amountA, amountB) = (amountADesired, amountBOptimal);
        } else {
            uint amountAOptimal = BabyLibrary.quote(amountBDesired, reserveB, reserveA);
            assert(amountAOptimal <= amountADesired);
            require(amountAOptimal >= amountAMin, 'BabyRouter: INSUFFICIENT_A_AMOUNT')
            (amountA, amountB) = (amountAOptimal, amountBDesired);
        }
    }
}
function addLiquidity(
    address tokenA,
    address tokenB,
    uint amountADesired,
    uint amountBDesired,
    uint amountAMin,
    uint amountBMin,
    address to,
    uint deadline
) external virtual override ensure(deadline) returns (uint amountA, uint amountB, uint liquidity) {
    (amountA, amountB) = _addLiquidity(tokenA, tokenB, amountADesired, amountBDesired, address pair = BabyLibrary.pairFor(factory, tokenA, tokenB));
    TransferHelper.safeTransferFrom(tokenA, msg.sender, pair, amountA);
    TransferHelper.safeTransferFrom(tokenB, msg.sender, pair, amountB);
    liquidity = IBabyPair(pair).mint(to);
}
function addLiquidityETH(
    address token,
    uint amountTokenDesired,
    uint amountTokenMin,
    uint amountETHMin,
    address to,
    uint deadline
) external virtual override payable ensure(deadline) returns (uint amountToken, uint amountETH, uint liquidity) {
    (amountToken, amountETH) = _addLiquidity(
        token,

```

```

81         WETH,
82         amountTokenDesired,
83         msg.value,
84         amountTokenMin,
85         amountETHMin
86     );
87     address pair = BabyLibrary.pairFor(factory, token, WETH);
88     TransferHelper.safeTransferFrom(token, msg.sender, pair, amountToken);
89     IWETH(WETH).deposit{value: amountETH}();
90     assert(IWETH(WETH).transfer(pair, amountETH));
91     liquidity = IBabyPair(pair).mint(to);
92     // refund dust eth, if any
93     if (msg.value > amountETH) TransferHelper.safeTransferETH(msg.sender, msg.value - amountETH);
94 }
95
96 // **** REMOVE LIQUIDITY ****
97 function removeLiquidity(
98     address tokenA,
99     address tokenB,
100    uint liquidity,
101    uint amountAMin,
102    uint amountBMin,
103    address to,
104    uint deadline
105 ) public virtual override ensure(deadline) returns (uint amountA, uint amountB) {
106     address pair = BabyLibrary.pairFor(factory, tokenA, tokenB);
107     console.log("tet123");
108     IBabyPair(pair).transferFrom(msg.sender, pair, liquidity); // send liquidity to pair
109     console.log("tet1234");
110     (uint amount0, uint amount1) = IBabyPair(pair).burn(to);
111     (address token0,) = BabyLibrary.sortTokens(tokenA, tokenB);
112     (amountA, amountB) = tokenA == token0 ? (amount0, amount1) : (amount1, amount0);
113     require(amountA >= amountAMin, 'BabyRouter: INSUFFICIENT_A_AMOUNT');
114     require(amountB >= amountBMin, 'BabyRouter: INSUFFICIENT_B_AMOUNT');
115 }
116 function removeLiquidityETH(
117     address token,
118     uint liquidity,
119     uint amountTokenMin,
120     uint amountETHMin,
121     address to,
122     uint deadline
123 ) public virtual override ensure(deadline) returns (uint amountToken, uint amountETH)
124     (amountToken, amountETH) = removeLiquidity(
125         token,
126         WETH,
127         liquidity,
128         amountTokenMin,
129         amountETHMin,
130         address(this),
131         deadline
132     );
133     TransferHelper.safeTransfer(token, to, amountToken);

```

```
134     IWETH(WETH).withdraw(amountETH);
135     TransferHelper.safeTransferETH(to, amountETH);
136 }
137 function removeLiquidityWithPermit(
138     address tokenA,
139     address tokenB,
140     uint liquidity,
141     uint amountAMin,
142     uint amountBMin,
143     address to,
144     uint deadline,
145     bool approveMax, uint8 v, bytes32 r, bytes32 s
146 ) external virtual override returns (uint amountA, uint amountB) {
147     address pair = BabyLibrary.pairFor(factory, tokenA, tokenB);
148     uint value = approveMax ? uint(-1) : liquidity;
149     IBabyPair(pair).permit(msg.sender, address(this), value, deadline, v, r, s);
150     (amountA, amountB) = removeLiquidity(tokenA, tokenB, liquidity, amountAMin, amountBMin);
151 }
152 function removeLiquidityETHWithPermit(
153     address token,
154     uint liquidity,
155     uint amountTokenMin,
156     uint amountETHMin,
157     address to,
158     uint deadline,
159     bool approveMax, uint8 v, bytes32 r, bytes32 s
160 ) external virtual override returns (uint amountToken, uint amountETH) {
161     address pair = BabyLibrary.pairFor(factory, token, WETH);
162     uint value = approveMax ? uint(-1) : liquidity;
163     IBabyPair(pair).permit(msg.sender, address(this), value, deadline, v, r, s);
164     (amountToken, amountETH) = removeLiquidityETH(token, liquidity, amountTokenMin, amountETHMin);
165 }
166
167 // **** REMOVE LIQUIDITY (supporting fee-on-transfer tokens) ****
168 function removeLiquidityETHSupportingFeeOnTransferTokens(
169     address token,
170     uint liquidity,
171     uint amountTokenMin,
172     uint amountETHMin,
173     address to,
174     uint deadline
175 ) public virtual override ensure(deadline) returns (uint amountETH) {
176     (, amountETH) = removeLiquidity(
177         token,
178         WETH,
179         liquidity,
180         amountTokenMin,
181         amountETHMin,
182         address(this),
183         deadline
184     );
185     TransferHelper.safeTransfer(token, to, IERC20(token).balanceOf(address(this)));
186     IWETH(WETH).withdraw(amountETH);
```

```

187     TransferHelper.safeTransferETH(to, amountETH);
188 }
189 function removeLiquidityETHWithPermitSupportingFeeOnTransferTokens(
190     address token,
191     uint liquidity,
192     uint amountTokenMin,
193     uint amountETHMin,
194     address to,
195     uint deadline,
196     bool approveMax, uint8 v, bytes32 r, bytes32 s
197 ) external virtual override returns (uint amountETH) {
198     address pair = BabyLibrary.pairFor(factory, token, WETH);
199     uint value = approveMax ? uint(-1) : liquidity;
200     IBabyPair(pair).permit(msg.sender, address(this), value, deadline, v, r, s);
201     amountETH = removeLiquidityETHSupportingFeeOnTransferTokens(
202         token, liquidity, amountTokenMin, amountETHMin, to, deadline
203     );
204 }
205
206 // **** SWAP ****
207 // requires the initial amount to have already been sent to the first pair
208 function _swap(uint[] memory amounts, address[] memory path, address _to) internal virtual {
209     for (uint i; i < path.length - 1; i++) {
210         (address input, address output) = (path[i], path[i + 1]);
211         (address token0,) = BabyLibrary.sortTokens(input, output);
212         uint amountOut = amounts[i + 1];
213         if (swapMining != address(0)) {
214             ISwapMining(swapMining).swap(msg.sender, input, output, amountOut);
215         }
216         (uint amount0Out, uint amount1Out) = input == token0 ? (uint(0), amountOut) :
217             address to = i < path.length - 2 ? BabyLibrary.pairFor(factory, output, path[i + 1]) :
218                 IBabyPair(BabyLibrary.pairFor(factory, input, output)).swap(
219                     amount0Out, amount1Out, to, new bytes(0)
220                 );
221     }
222 }
223 function swapExactTokensForTokens(
224     uint amountIn,
225     uint amountOutMin,
226     address[] calldata path,
227     address to,
228     uint deadline
229 ) external virtual override ensure(deadline) returns (uint[] memory amounts) {
230     amounts = BabyLibrary.getAmountsOut(factory, amountIn, path);
231     require(amounts[amounts.length - 1] >= amountOutMin, 'BabyRouter: INSUFFICIENT_OUTPUT_AMOUNT');
232     TransferHelper.safeTransferFrom(
233         path[0], msg.sender, BabyLibrary.pairFor(factory, path[0], path[1]), amounts[0]
234     );
235     _swap(amounts, path, to);
236 }
```

SLOC Appendix

Solidity Contracts

Language	Files	Lines	Blanks	Comments	Code	Complex
Solidity	23	6058	758	1031	4269	495

Comments to Code $1031/4269 = 24\%$

Javascript Tests

Language	Files	Lines	Blanks	Comments	Code	Complex
JSON	5	3901	0	0	3901	0
Python	1	41	4	29	8	3
Total	6	3942	4	29	3909	3

Tests to Code $3909/4269 = 92\%$