



# **RugFreeCoins Audit**



## **Flavors BSC Token**

# **Smart Contract Security Audit**

**November 10, 2021**



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# Audit details



## **Audited project**

Flavors BSC Token



## **Contract Address**

0xF1a45E52d6d11D0e591d4F18DA9D88a4c266b300



## **Client contact**

Flavors BSC Team



## **Blockchain**

Binance smart chain



## **Project website**

<https://flavorsbsc.com/>

# Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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# Background

Rugfreecoins was commissioned by Flavors BSC Token to perform an audit of the smart contract.

**<https://bscscan.com/token/0xF1a45E52d6d11D0e591d4F18DA9D88a4c266b300>**

dripper0\_|address: 0xf1a45e8d1eff4fb030e6e89566e82e15223f3469

dripper1\_|address: 0xf1a45d53c9aa16c530a5cb020a4a32ded8c733ae

flavor0\_|address: 0x98631c69602083d04f83934576a53e2a133d482f

flavor1\_|address: 0x099f551ea3cb85707cac6ac507cbc36c96ec64ff

creamery\_|address: 0xf1a45caeab6b2a317ec417e97b032bea1c086cb8

flavorsChainData\_|address: 0xf1a45c17d8e7b1896f95beeefa989ac9e42dc100

The focus of this audit is to verify that the smart contract is secure, resilient and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, long term sustainability and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

# About the project

Flavors BSC is a token built on the Binance Smart Chain, which is a community rewarding token made for those who want more out of DeFi, offering holders access to a variety of vetted projects and exclusive pre-sales through earned rewards and airdrops. Each transaction, purchase incurs 12% fee and sale incur 35% to 15% from the launch date.

## Features

- ❖ **Drips mechanism:** Drips are passive rewards that go directly to the holder's wallet just for holding \$FLVR. Holders can claim them manually from the Dapp or receive them automatically over time. The **rewards in different DeFi tokens** will be distributed among every holder proportional to how many tokens each individual holds in values of **7% when buying and 10% to 30% when selling based on the launched date.**
- ❖ The **sustainability fee of 5% for marketing/team when buying and selling** is what allows Flavors BSC to hold the aforementioned promise. Tokens will be swapped into BNB and will be sent to a marketing wallet per transaction. This way, Flavors BSC will have enough funds to promote the coin and spend for future development without selling tokens as the traditional way.

# Tokenomics

## **12% fee when buying**

- ❖ 7% of trade goes to holders' pockets in tokens.
- ❖ 4% of trade goes to the team/marketing wallet.

## **First 7 days: 35% fee when selling**

- ❖ 30% of trade goes to holders' pockets in tokens.
- ❖ 5% of trade goes to the team/marketing wallet.

## **8 - 28 days: 30% fee when selling**

- ❖ 25% of trade goes to holders' pockets in tokens.
- ❖ 5% of trade goes to the team/marketing wallet.

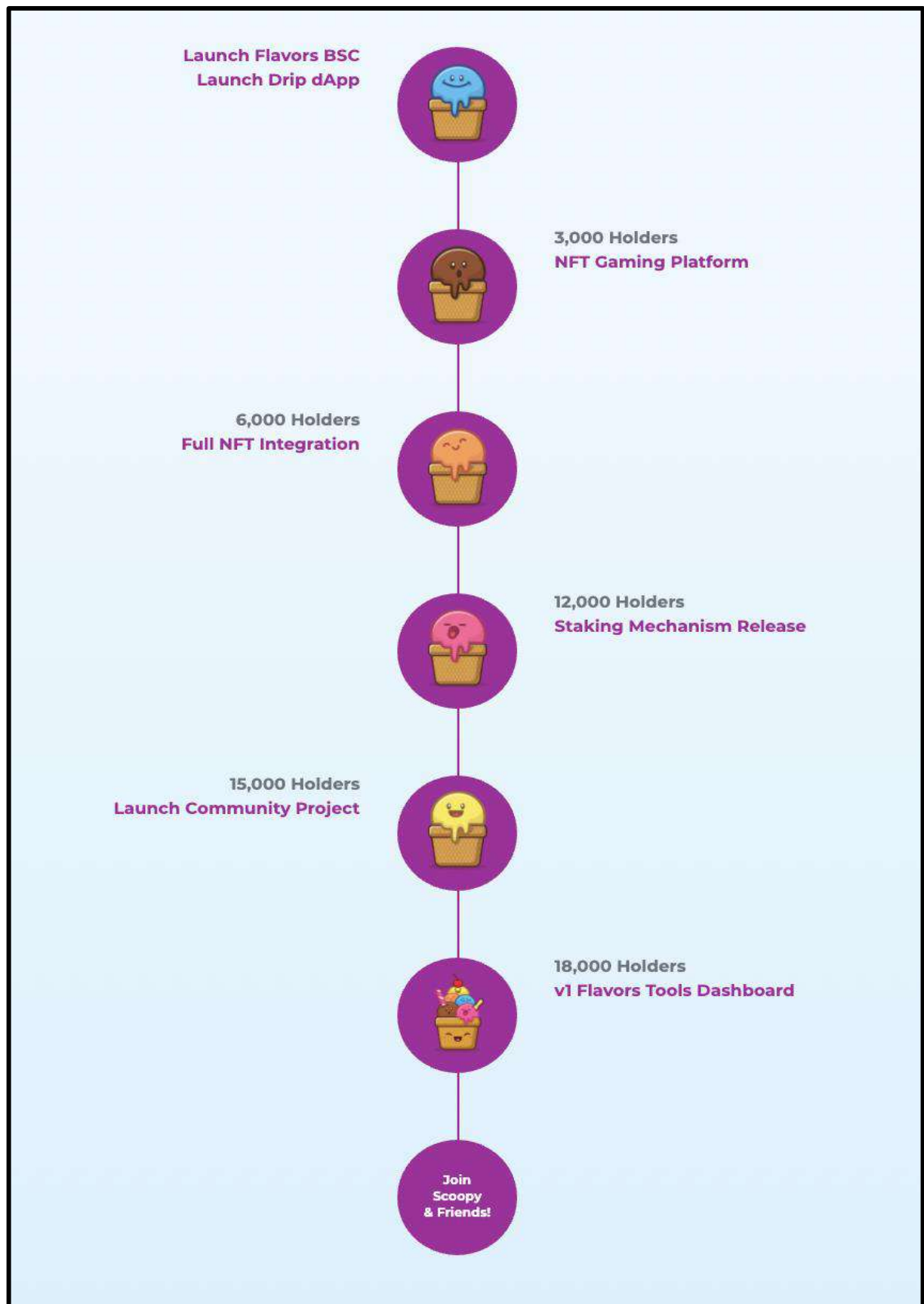
## **29 - 56 days: 17% fee when selling**

- ❖ 12% of trade goes to holders' pockets in tokens.
- ❖ 5% of trade goes to the team/marketing wallet.

## **After 56 days: 15% fee when selling**

- ❖ 10% of trade goes to holders' pockets in tokens.
- ❖ 5% of trade goes to the team/marketing wallet.

# Roadmap





# Target market and the concept

## Target market

- ❖ Anyone who's interested in Crypto space with long term investment plans.
- ❖ Anyone who's ready to earn a passive income in DeFi tokens by holding \$FLVR tokens.
- ❖ Anyone who believes in reward mechanisms to hold tokens for a longer duration with profits.
- ❖ Anyone who's interested in owning NFTs.
- ❖ Anyone who's interested in doing daily tasks and gets rewards in \$FLVR tokens.
- ❖ Anyone who's interested in collecting NFTs or trading NFTs.
- ❖ Anyone who's interested in trading tokens.
- ❖ All DeFi token and BNB investors and fans out there.
- ❖ Anyone who's interested in taking part with the future plans of the \$FLVR token.
- ❖ Anyone who's interested in making financial transactions with any other party using BNB, any DeFi token in the Flavors ecosystem or \$FLVR as the currency.

## Core concept

### The reward system

Drips are passive rewards that go directly to the holder's wallet just for holding \$FLVR. Holders can claim them manually from the Dapp or receive them automatically over time. The **rewards in different DeFi tokens** will be distributed among every holder proportional to how many tokens each individual holds in values of **7% when buying and 10% to 30% when selling based on the launched date**.

### Sustainable mechanism

The **sustainability fee of 5% for marketing/team when buying and selling** is what allows Flavors BSC to hold the aforementioned promise. Tokens will be swapped into BNB and will be sent to a marketing wallet per transaction. This way, Flavors BSC will have enough funds to promote the coin and spend for future development without selling tokens as the traditional way.

### The Creamery contract


The creamery contract holds BNBs earned from marketing and 20% of all marketing funds are planned to be used for mint and pair new tokens or buy back existing supply.

## Cream N'Freeze

20% earned from partnerships will also be placed for mint and pair new tokens or buy back existing supply.


Current Drips


Past Drips




**Revival**  
Empowering Holders To Invest In Themselves

Revival is a community-based Binance smart chain project which strives to evolve and better the current climate within the DeFi space.


[0x7eae60040135f20f508a393ca400ded339d654e](#) 


[Project Website](#) 



**Useless**  
The Only Thing Useless About Us Is The Name

We're aiming to make DeFi accessible to crypto and non-crypto enthusiasts alike by building a software ecosystem around DeFi.

[0x2cd2664ce5639e46c6a3125257361e01d0213657](#) 

[Project Website](#) 

# Potential to grow with score points

1.	Project efficiency	10/10
2.	Project uniqueness	10/10
3	Information quality	9/10
4	Service quality	10/10
5	System quality	9/10
6	Impact on the community	10/10
7	Impact on the business	10/10
8	Preparing for the future	9/10
Total Points		<b>9.625/10</b>

# Contract details

## Token contract details for 10<sup>th</sup> November 2021

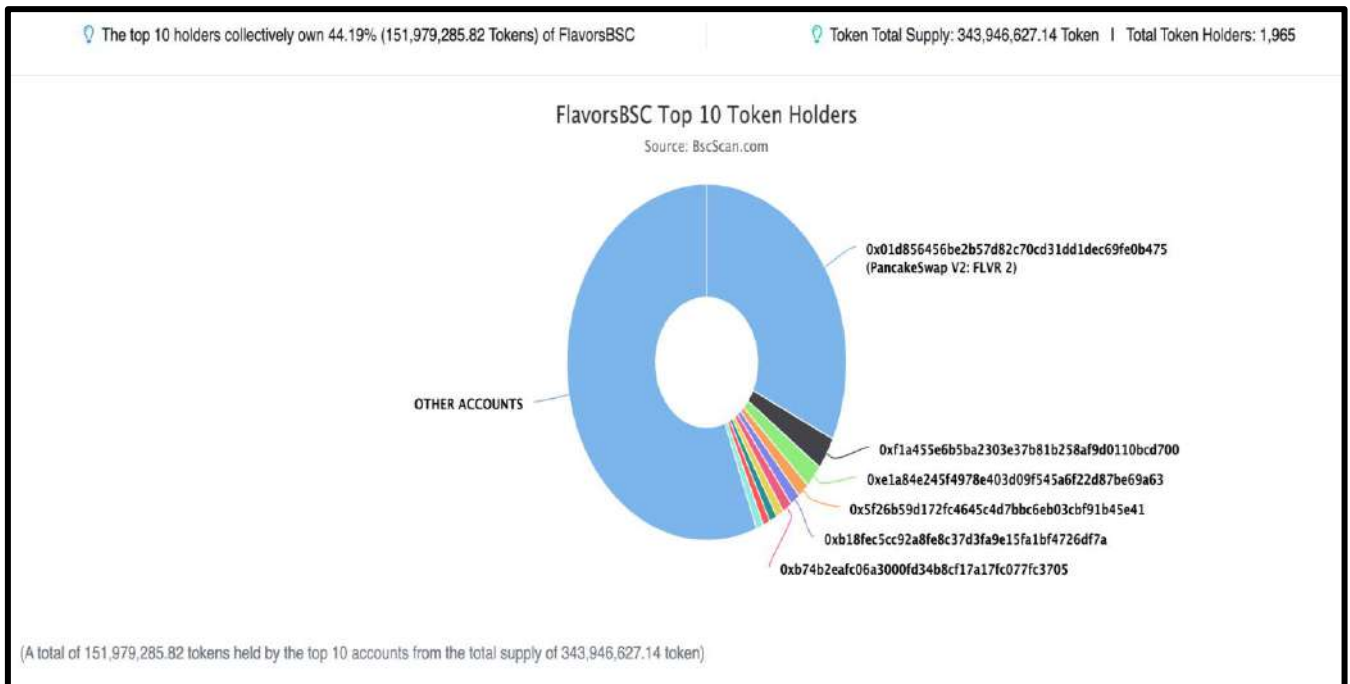
<b>Contract name</b>	FlavorsBSC
<b>Contract address</b>	0xF1a45E52d6d11D0e591d4F18DA9D88a4c266b300
<b>Token supply</b>	343,946,627.141562
<b>Token ticker</b>	FLVR
<b>Decimals</b>	9
<b>Token holders</b>	1,965
<b>Transaction count</b>	11,479
<b>Top 100% holders dominance</b>	75.11%
<b>dripper0_address</b>	0xf1a45e8d1eff4fb030e6e89566e82e15223f3469
<b>dripper1_address</b>	0xf1a45d53c9aa16c530a5cb020a4a32ded8c733ae
<b>flavor0_address</b>	0x98631c69602083d04f83934576a53e2a133d482f
<b>flavor1_address</b>	0x099f551ea3cb85707cac6ac507cbc36c96ec64ff
<b>router_address</b>	0x10ed43c718714eb63d5aa57b78b54704e256024e
<b>pair_address</b>	0x01d856456be2b57d82c70cd31dd1dec69fe0b475
<b>creamery_address</b>	0xf1a45caeab6b2a317ec417e97b032bea1c086cb8
<b>flavorsChainData_address</b>	0xf1a45c17d8e7b1896f95beefa989ac9e42dc100
<b>presale0_mig_address</b>	0xf1a4550cd1d06b1e4d7c34fe49da26d2e6253c55
<b>presale1_pri_address</b>	0x78fdf2f1985118943ff8fc7d4d9702d9820d7c9d
<b>presale2_pub_address</b>	0xf1a45556a43451e0b23d70b913fdaed862165caa

<b>owner_ address</b>	0xf1a455e6b5ba2303e37b81b258af9d0110bcd700
<b>ownable_ address</b>	0xf1a4592820e0141946d4a3fc159f87ba06c0a809
<b>iceCreamMan_ address</b>	0xf1a455e6b5ba2303e37b81b258af9d0110bcd700
<b>bridge_ address</b>	0xf1a45afb3b4f6196866b364784b39e855a355b83
<b>bridgeTroll_ address</b>	0xf1a455e6b5ba2303e37b81b258af9d0110bcd700
<b>wrappedNative_ address</b>	0xbb4cdb9cbd36b01bd1cbaebf2de08d9173bc095c
<b>Contract deployer address</b>	0xF1a4Fac7E5B296a65Ae19b581E20eb58c6a29246



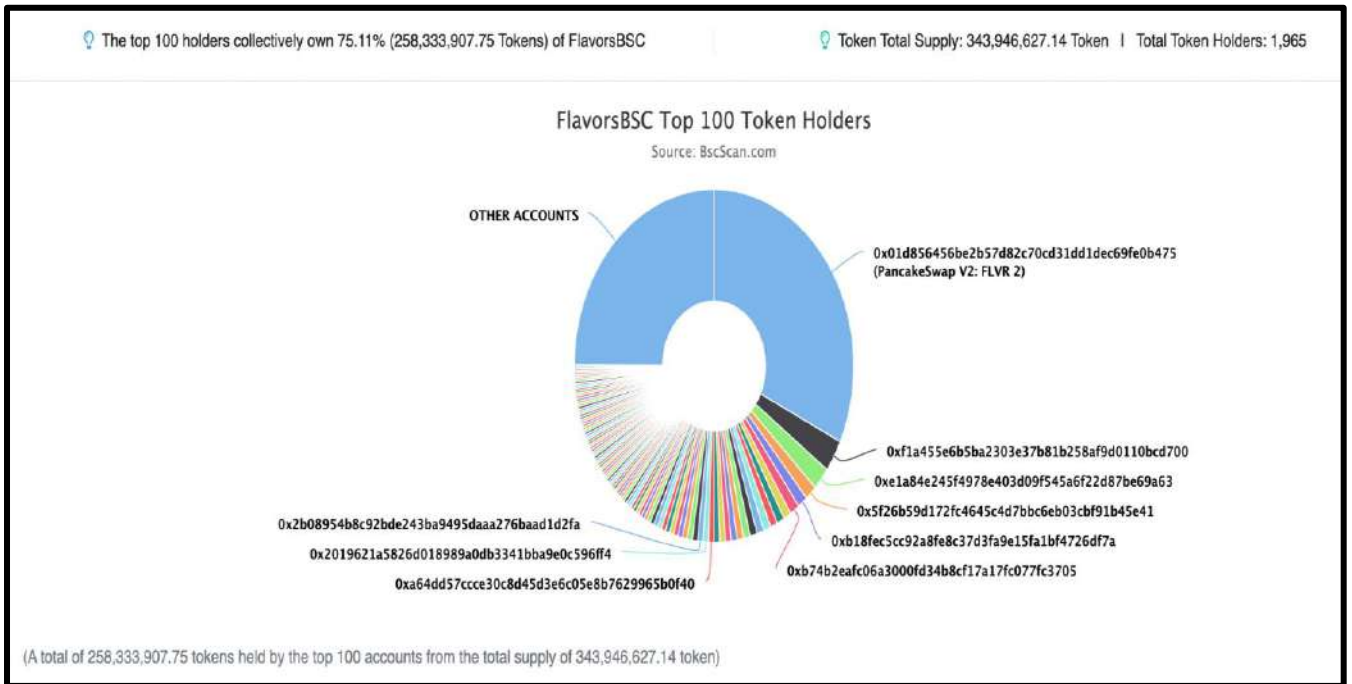
# Top token holders

## Top 10 Token Holders



# Token distribution

## Top 100 Token Holders



















































# Contract code function details

No	Category	Item	Result
1	Coding conventions	BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	low issue
		SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
2	Function call audit	Authorization of function call	pass
		Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
3	Business security	Access control of owners	pass
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable state		pass
7	Transaction ordering dependence		pass
8	Block properties dependence		pass
9	Pseudo random number generator (PRNG)		pass
10	DoS (Denial of Service)		pass
11	Token vesting implementation		pass
12	Fake deposit		pass
13	Event security		pass

# Contract description table

















Below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions and implementations with its visibility and mutability.



Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithV alue	Internal 		
L	functionCallWithV alue	Internal 		
L	_functionCallWith Value	Private 		
SafeMath	Library			
L	tryAdd	Internal 		
L	trySub	Internal 		
L	tryMul	Internal 		
L	tryDiv	Internal 		
L	tryMod	Internal 		
L	add	Internal 		
L	sub	Internal 		
L	mul	Internal 		



















L	div	Internal 		
L	mod	Internal 		
L	sub	Internal 		
L	div	Internal 		
L	mod	Internal 		
<b>Context</b>	<b>Implementation</b>			
L	_msgSender	Internal 		
L	_msgValue	Internal 		
L	_msgData	Internal 		
<b>IERC20</b>	<b>Interface</b>			
L	totalSupply	External 		NO 
L	decimals	External 		NO 
L	symbol	External 		NO 
L	name	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
<b>IWrappedNative</b>	<b>Interface</b>			
L	totalSupply	External 		NO 
L	decimals	External 		NO 
L	symbol	External 		NO 














L	name	External !		NO !
L	transfer	External !		NO !
L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !
L	deposit	External !		NO !
L	withdraw	External !		NO !
<b>IFlavorsChainData</b>	<b>Interface</b>			
L	chainId	External !		NO !
L	router	External !		NO !
L	tokenName	External !		NO !
L	tokenSymbol	External !		NO !
L	wrappedNative	External !		NO !
<b>IBridge</b>	<b>Interface</b>			
L	initialize	External !		NO !
L	pauseBridge_OAD	External !		NO !
L	unPauseBridge_OAD	External !		NO !
L	updateOwnable_OAD	External !		NO !
L	burnItAllDown_OO	External !		NO !
L	updateOwner_OO	External !		NO !
L	updateIceCreamMan_OO	External !		NO !












L	sendDepositToCreamery	External !		NO !
L	waitToCross	External !		NO !
L	owner	External !		NO !
L	Ownable	External !		NO !
L	bridgeTroll	External !		NO !
L	iceCreamMan	External !		NO !
L	initialized	External !		NO !
L	FlavorsToken	External !		NO !
L	bridgePaused	External !		NO !
<b>ICreamery</b>	<b>Interface</b>			
L	initialize	External !		NO !
L	burnItAllDown_OO	External !		NO !
L	launch_OFT	External !		NO !
L	weSentYouSomething_OFT	External !		NO !
L	updateOwnable_OAD	External !		NO !
L	deposit	External !		NO !
L	spiltMilk_OAUTH	External !		NO !
<b>IDEXFactory</b>	<b>Interface</b>			
L	getPair	External !		NO !
L	allPairs	External !		NO !
L	allPairsLength	External !		NO !
L	feeTo	External !		NO !
L	feeToSetter	External !		NO !











L	createPair	External !		NO !
<b>IDEXPair</b>	<b>Interface</b>			
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
L	totalSupply	External !		NO !
L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transfer	External !		NO !
L	transferFrom	External !		NO !
L	DOMAIN_SEPARATOR	External !		NO !
L	PERMIT_TYPEHASH	External !		NO !
L	nonces	External !		NO !
L	permit	External !		NO !
L	MINIMUM_LIQUIDITY	External !		NO !
L	factory	External !		NO !
L	token0	External !		NO !
L	token1	External !		NO !
L	getReserves	External !		NO !
L	price0CumulativeLast	External !		NO !
L	price1CumulativeLast	External !		NO !
L	kLast	External !		NO !















































L	mint	External !		NO !
L	burn	External !		NO !
L	swap	External !		NO !
L	skim	External !		NO !
L	sync	External !		NO !
L	initialize	External !		NO !
<b>IDEXRouter</b>	<b>Interface</b>			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !		NO !
L	addLiquidityETH	External !		NO !
L	removeLiquidity	External !		NO !
L	removeLiquidityETH	External !		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		NO !
L	swapExactTokensForTokens	External !		NO !
L	swapTokensForExactTokens	External !		NO !
L	swapExactETHForTokens	External !		NO !
L	swapTokensForExactETH	External !		NO !
L	swapExactTokensForETH	External !		NO !
L	swapETHForExactTokens	External !		NO !
























































L	quote	External !		NO !
L	getAmountOut	External !		NO !
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO !
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
<b>IFlavorDripper</b>	<b>Interface</b>			
L	claimDividend	External !		NO !
L	customBuyerContractCallback_OCB	External !		NO !
L	setFlavorDistCriteria_OAD	External !		NO !
L	updateOwnableFlavors_OAD	External !		NO !
L	process_OFT	External !		NO !
L	setShare_OFT	External !		NO !













































L	deposit_OFT	External !		NO !
L	updateFlavorsToken_OO	External !		NO !
L	updateFlavor_OO	External !		NO !
L	updateRouter_OO	External !		NO !
L	initialize	External !		NO !
<b>IOwnableFlavors</b>	<b>Interface</b>			
L	isAdmin	External !		NO !
L	isAuthorized	External !		NO !
L	upgrade	External !		NO !
L	initialize0	External !		NO !
L	initialize1	External !		NO !
L	updateDripper0_OAD	External !		NO !
L	updateDripper1_OAD	External !		NO !
L	pair	External !		NO !
L	owner	External !		NO !
L	bridge	External !		NO !
L	router	External !		NO !
L	ownable	External !		NO !
L	flavor0	External !		NO !
L	flavor1	External !		NO !
L	dripper0	External !		NO !
L	dripper1	External !		NO !
L	creamery	External !		NO !
L	bridgeTroll	External !		NO !












L	iceCreamMan	External !		NO !
L	flavorsToken	External !		NO !
L	wrappedNative	External !		NO !
L	pending_owner	External !		NO !
L	flavorsChainData	External !		NO !
L	pending_iceCream Man	External !		NO !
L	customBuyerContr act0	External !		NO !
L	customBuyerContr act1	External !		NO !
<b>IPresaleFLV</b>	<b>Interface</b>			
L	enableClaims_OF T	External !		NO !
L	isOG_OFT	External !		NO !
L	canHolderSell_OF T	External !		NO !
<b>Flavors</b>	<b>Implementation</b>	<b>Context, IERC20</b>		
L	initialize	Public !		initializer0
L	startTheMusic_OI CM	Public !		onlyIceCreamMan
L	enablePresaleClai ms_OICM	External !		onlyIceCreamMan
L	_enablePresaleCl aims	Internal 		
L	getMoreInfo	External !		NO !
L	setPresales_OICM	External !		onlyIceCreamMan
L	_setPresale0	Internal 		

L	_setPresale1	Internal 		
L	_setPresale2	Internal 		
L	getPresaleInfo0	External 		NO 
L	presaleClaim	External 		onlyPresale
L	toggleSellRestrict Presale_OICM	External 		onlyIceCreamMan
L	_sellRestrictions	Internal 		
L	checkCanHolderS ell	Internal 		
L	setBalance_OB	External 		onlyBridge
L	_setBalance	Internal 		
L	addBalance_OB	External 		onlyBridge
L	_addBalance	Internal 		
L	subBalance_OB	External 		onlyBridge
L	_subBalance	Internal 		
L	setTotalSupply_O B	External 		onlyBridge
L	_setTotalSupply	Internal 		
L	addTotalSupply_O B	External 		onlyBridge
L	_addTotalSupply	Internal 		
L	subTotalSupply_O B	External 		onlyBridge
L	_subTotalSupply	Internal 		
L	updateThresholds	Internal 		
L	setMaxTxPortion_ OAD	External 		onlyAdmin
L	setSwapThreshold Portion_OAD	External 		onlyAdmin
L	cream	Private 		



L	melt	Private 		
L	getRate	Internal 		
L	addLiquidityETH	Public 		NO 
L	creamAndFreeze_OAUTH	Public 		onlyAuthorized
L	_creamAndFreeze	Internal 		
L	transferLiquidity	Internal 		
L	spiltMilk_OC	External 		onlyCreamery
L	updateShares_OB	External 		onlyBridge
L	_updateShares	Private 		
L	approve	Public 		NO 
L	_approve	Private 		
L	approveMax	Public 		NO 
L	addAllowance_OB	External 		onlyBridge
L	_addAllowance	Internal 		
L	_subAllowance	Internal 		
L	increaseAllowance	Public 		NO 
L	decreaseAllowance	Public 		NO 
L	transfer	Public 		NO 
L	transferFrom	Public 		NO 
L	_transfer	Internal 		
L	_tokenTransfer	Internal 		
L	swapAndSend_OAUTH	External 		onlyAuthorized
L	_processDrips	Internal 		
L	_swapAndSend	Internal 		

L	swapWithJimmyForQuarters	Internal 		
L	toggleIsFeeExempt_OAD	External 		onlyAdmin
L	toggleIsLiquidityPool_OAD	External 		onlyAdmin
L	toggleIsTxLimitExempt_OAD	External 		onlyAdmin
L	toggleIsDividendExempt_OAD	External 		onlyAdmin
L	_setIsDividendExempt	Internal 		
L	setFees_OAD	External 		onlyAdmin
L	setGas_OAD	External 		onlyAdmin
L	updateDripper0_OO	External 		onlyOwnable
L	_updateDripper0	Internal 		
L	updateDripper1_OO	External 		onlyOwnable
L	_updateDripper1	Private 		
L	upgradeOwnableFlavors_OICM	External 		onlyIceCreamMan
L	_updateOwnable	Internal 		
L	updateCreamery_OO	External 		onlyOwnable
L	_updateCreamery	Internal 		
L	updateIceCreamMan_OO	External 		onlyOwnable
L	_updateIceCreamMan	Internal 		
L	updateBridge_OO	External 		onlyOwnable
L	_updateBridge	Internal 		
L	updateRouter_OO	External 		onlyOwnable

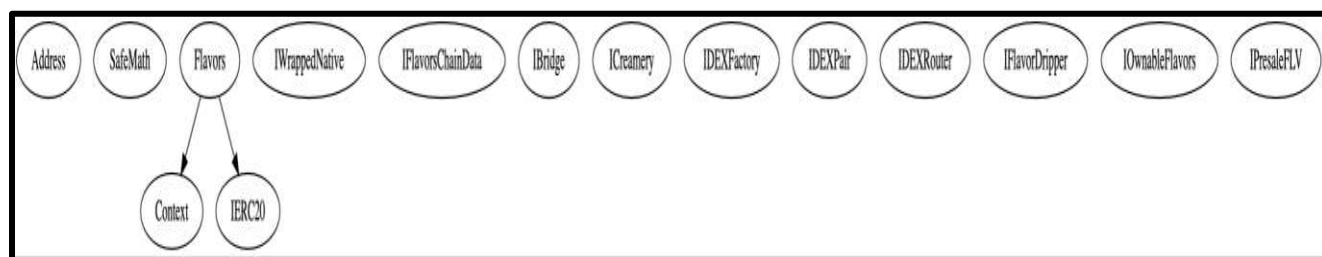


L	_updateRouter	Internal 		
L	_deployPool	Internal 		
L	launchedAt	External 		NO 
L	balanceOf	Public 		NO 
L	allowance	Public 		NO 
L	getFees	External 		NO 
L	getGas	External 		NO 
L	getAddresses0	External 		NO 
L	getAddresses1	External 		NO 
L	checkTxRxlsZero Address	Internal 		
L	checkIsGreaterTh anZero	Internal 		
L	checkTxLimits	Internal 		
L	adminWithdrawalV alue_OAD	External 		onlyAdmin
L	_adminWithdrawal	Internal 		
L	adminTokenWithdr awal_OAD	External 		onlyAdmin
L	checkHasBalance	Internal 		
L	forwardToCreamer y	Public 		NO 
L		External 		NO 
L		External 		NO 














## Legend

Symbol	Meaning
	Function can modify state
	Function is payable









## Inheritance Hierarchy































## FlavorDripper0












Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithV alue	Internal 		
L	functionCallWithV alue	Internal 		
L	_functionCallWith Value	Private 		











SafeMath	Library			
L	tryAdd	Internal 🔒		
L	trySub	Internal 🔒		
L	tryMul	Internal 🔒		
L	tryDiv	Internal 🔒		
L	tryMod	Internal 🔒		
L	add	Internal 🔒		
L	sub	Internal 🔒		
L	mul	Internal 🔒		
L	div	Internal 🔒		
L	mod	Internal 🔒		
L	sub	Internal 🔒		
L	div	Internal 🔒		
L	mod	Internal 🔒		
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgValue	Internal 🔒		
L	_msgData	Internal 🔒		
IERC20	Interface			
L	totalSupply	External !		NO!
L	decimals	External !		NO!
L	symbol	External !		NO!
L	name	External !		NO!
L	balanceOf	External !		NO!

L	transfer	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !
<b>IWrappedNative</b>	<b>Interface</b>			
L	totalSupply	External !		NO !
L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	transfer	External !		NO !
L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !
L	deposit	External !		NO !
L	withdraw	External !		NO !
<b>IFlavorsChainData</b>	<b>Interface</b>			
L	chainId	External !		NO !
L	router	External !		NO !
L	tokenName	External !		NO !
L	tokenSymbol	External !		NO !
L	wrappedNative	External !		NO !
<b>IBridge</b>	<b>Interface</b>			


















L	initialize	External !		NO!
L	pauseBridge_OAD	External !		NO!
L	unPauseBridge_OAD	External !		NO!
L	updateOwnable_OAD	External !		NO!
L	burnItAllDown_OO	External !		NO!
L	updateOwner_OO	External !		NO!
L	updateIceCreamMan_OO	External !		NO!
L	sendDepositToCreamery	External !		NO!
L	waitToCross	External !		NO!
L	owner	External !		NO!
L	Ownable	External !		NO!
L	bridgeTroll	External !		NO!
L	iceCreamMan	External !		NO!
L	initialized	External !		NO!
L	FlavorsToken	External !		NO!
L	bridgePaused	External !		NO!
<b>ICreamery</b>	<b>Interface</b>			
L	initialize	External !		NO!
L	burnItAllDown_OO	External !		NO!
L	launch_OFT	External !		NO!
L	weSentYouSomething_OFT	External !		NO!
L	updateOwnable_OAD	External !		NO!




L	deposit	External !		NO!
L	spiltMilk_OAUTH	External !		NO!
<b>IDEXFactory</b>	<b>Interface</b>			
L	getPair	External !		NO!
L	allPairs	External !		NO!
L	allPairsLength	External !		NO!
L	feeTo	External !		NO!
L	feeToSetter	External !		NO!
L	createPair	External !		NO!
<b>IDEXPair</b>	<b>Interface</b>			
L	name	External !		NO!
L	symbol	External !		NO!
L	decimals	External !		NO!
L	totalSupply	External !		NO!
L	balanceOf	External !		NO!
L	allowance	External !		NO!
L	approve	External !		NO!
L	transfer	External !		NO!
L	transferFrom	External !		NO!
L	DOMAIN_SEPARATOR	External !		NO!
L	PERMIT_TYPEHASH	External !		NO!
L	nonces	External !		NO!
L	permit	External !		NO!





























L	MINIMUM_LIQUIDITY	External !		NO!
L	factory	External !		NO!
L	token0	External !		NO!
L	token1	External !		NO!
L	getReserves	External !		NO!
L	price0CumulativeLast	External !		NO!
L	price1CumulativeLast	External !		NO!
L	kLast	External !		NO!
L	mint	External !		NO!
L	burn	External !		NO!
L	swap	External !		NO!
L	skim	External !		NO!
L	sync	External !		NO!
L	initialize	External !		NO!
<b>IDEXRouter</b>	<b>Interface</b>			
L	factory	External !		NO!
L	WETH	External !		NO!
L	addLiquidity	External !		NO!
L	addLiquidityETH	External !		NO!
L	removeLiquidity	External !		NO!
L	removeLiquidityETH	External !		NO!
L	removeLiquidityWithPermit	External !		NO!

L	removeLiquidityETHWithPermit	External !		NO!
L	swapExactTokensForTokens	External !		NO!
L	swapTokensForExactTokens	External !		NO!
L	swapExactETHForTokens	External !		NO!
L	swapTokensForExactETH	External !		NO!
L	swapExactTokensForETH	External !		NO!
L	swapETHForExactTokens	External !		NO!
L	quote	External !		NO!
L	getAmountOut	External !		NO!
L	getAmountIn	External !		NO!
L	getAmountsOut	External !		NO!
L	getAmountsIn	External !		NO!
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO!
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO!
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO!
L	swapExactTokensForETHSupporting	External !		NO!





























	FeeOnTransferTo kens			
<b>IFlavorDripper</b>	<b>Interface</b>			
L	claimDividend	External !		NO!
L	customBuyerContr actCallback_OCB	External !		NO!
L	setFlavorDistCriter ia_OAD	External !		NO!
L	updateOwnableFla vors_OAD	External !		NO!
L	process_OFT	External !		NO!
L	setShare_OFT	External !		NO!
L	deposit_OFT	External !		NO!
L	updateFlavorsTok en_OO	External !		NO!
L	updateFlavor_OO	External !		NO!
L	updateRouter_OO	External !		NO!
L	initialize	External !		NO!
<b>IOwnableFlavors</b>	<b>Interface</b>			
L	isAdmin	External !		NO!
L	isAuthorized	External !		NO!
L	upgrade	External !		NO!
L	initialize0	External !		NO!
L	initialize1	External !		NO!
L	updateDripper0_O AD	External !		NO!
L	updateDripper1_O AD	External !		NO!






L	pair	External !		NO!
L	owner	External !		NO!
L	bridge	External !		NO!
L	router	External !		NO!
L	ownable	External !		NO!
L	flavor0	External !		NO!
L	flavor1	External !		NO!
L	dripper0	External !		NO!
L	dripper1	External !		NO!
L	creamery	External !		NO!
L	bridgeTroll	External !		NO!
L	iceCreamMan	External !		NO!
L	flavorsToken	External !		NO!
L	wrappedNative	External !		NO!
L	pending_owner	External !		NO!
L	flavorsChainData	External !		NO!
L	pending_iceCream Man	External !		NO!
L	customBuyerContr act0	External !		NO!
L	customBuyerContr act1	External !		NO!
IPresaleFLV	Interface			
L	enableClaims_OF T	External !		NO!
L	isOG_OFT	External !		NO!
L	canHolderSell_OF T	External !		NO!

Flavors	Implementation	Context, IERC20		
L	initialize	Public !		initializer0
L	startTheMusic_OI CM	Public !		onlyIceCreamMan
L	enablePresaleClaims_OICM	External !		onlyIceCreamMan
L	_enablePresaleClaims	Internal 		
L	getMoreInfo	External !		NO!
L	setPresales_OICM	External !		onlyIceCreamMan
L	_setPresale0	Internal 		
L	_setPresale1	Internal 		
L	_setPresale2	Internal 		
L	getPresaleInfo0	External !		NO!
L	presaleClaim	External !		onlyPresale
L	toggleSellRestrict Presale_OICM	External !		onlyIceCreamMan
L	_sellRestrictions	Internal 		
L	checkCanHolderSell	Internal 		
L	setBalance_OB	External !		onlyBridge
L	_setBalance	Internal 		
L	addBalance_OB	External !		onlyBridge
L	_addBalance	Internal 		
L	subBalance_OB	External !		onlyBridge
L	_subBalance	Internal 		
L	setTotalSupply_OB	External !		onlyBridge



L	_setTotalSupply	Internal 		
L	addTotalSupply_OB	External 		onlyBridge
L	_addTotalSupply	Internal 		
L	subTotalSupply_OB	External 		onlyBridge
L	_subTotalSupply	Internal 		
L	updateThresholds	Internal 		
L	setMaxTxPortion_OAD	External 		onlyAdmin
L	setSwapThresholdPortion_OAD	External 		onlyAdmin
L	cream	Private 		
L	melt	Private 		
L	getRate	Internal 		
L	addLiquidityETH	Public 		NO 
L	creamAndFreeze_OAUTH	Public 		onlyAuthorized
L	_creamAndFreeze	Internal 		
L	transferLiquidity	Internal 		
L	spiltMilk_OC	External 		onlyCreamery
L	updateShares_OB	External 		onlyBridge
L	_updateShares	Private 		
L	approve	Public 		NO 
L	_approve	Private 		
L	approveMax	Public 		NO 
L	addAllowance_OB	External 		onlyBridge
L	_addAllowance	Internal 		
L	_subAllowance	Internal 		

L	increaseAllowance	Public !		NO!
L	decreaseAllowance	Public !		NO!
L	transfer	Public !		NO!
L	transferFrom	Public !		NO!
L	_transfer	Internal 		
L	_tokenTransfer	Internal 		
L	swapAndSend_OATH	External !		onlyAuthorized
L	_processDrips	Internal 		
L	_swapAndSend	Internal 		
L	swapWithJimmyForQuarters	Internal 		
L	toggleIsFeeExempt_OAD	External !		onlyAdmin
L	toggleIsLiquidityPool_OAD	External !		onlyAdmin
L	toggleIsTxLimitExempt_OAD	External !		onlyAdmin
L	toggleIsDividendExempt_OAD	External !		onlyAdmin
L	_setIsDividendExempt	Internal 		
L	setFees_OAD	External !		onlyAdmin
L	setGas_OAD	External !		onlyAdmin
L	updateDripper0_OO	External !		onlyOwnable
L	_updateDripper0	Internal 		
L	updateDripper1_OO	External !		onlyOwnable
L	_updateDripper1	Private 		

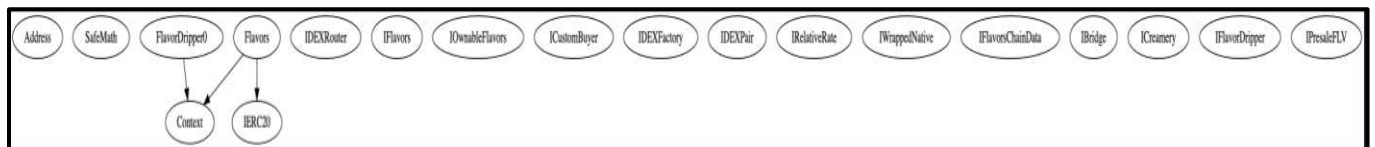
L	upgradeOwnableFlavors_OICM	External !		onlyIceCreamMan
L	_updateOwnable	Internal 		
L	updateCreamery_OO	External !		onlyOwnable
L	_updateCreamery	Internal 		
L	updateIceCreamMan_OO	External !		onlyOwnable
L	_updateIceCreamMan	Internal 		
L	updateBridge_OO	External !		onlyOwnable
L	_updateBridge	Internal 		
L	updateRouter_OO	External !		onlyOwnable
L	_updateRouter	Internal 		
L	_deployPool	Internal 		
L	launchedAt	External !		NO !
L	balanceOf	Public !		NO !
L	allowance	Public !		NO !
L	getFees	External !		NO !
L	getGas	External !		NO !
L	getAddresses0	External !		NO !
L	getAddresses1	External !		NO !
L	checkTxRxsZeroAddress	Internal 		
L	checkIsGreaterThanZero	Internal 		
L	checkTxLimits	Internal 		
L	adminWithdrawalValue_OAD	External !		onlyAdmin
L	_adminWithdrawal	Internal 		

L	adminTokenWithdrawal_OAD	External !		onlyAdmin
L	checkHasBalance	Internal 		
L	forwardToCreamery	Public !		NO !
L		External !		NO !
L		External !		NO !










### Legend



Symbol	Meaning
	Function can modify state
	Function is payable

## FlavorDripper0 inheritance





























## FlavorDripper1 Graph










Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithValue	Internal 		











L	functionCallWithValue	Internal 🔒		
L	_functionCallWithValue	Private 🔒		
<b>SafeMath</b>	<b>Library</b>			
L	tryAdd	Internal 🔒		
L	trySub	Internal 🔒		
L	tryMul	Internal 🔒		
L	tryDiv	Internal 🔒		
L	tryMod	Internal 🔒		
L	add	Internal 🔒		
L	sub	Internal 🔒		
L	mul	Internal 🔒		
L	div	Internal 🔒		
L	mod	Internal 🔒		
L	sub	Internal 🔒		
L	div	Internal 🔒		
L	mod	Internal 🔒		
<b>Context</b>	<b>Implementation</b>			
L	_msgSender	Internal 🔒		
L	_msgValue	Internal 🔒		
L	_msgData	Internal 🔒		
<b>IERC20</b>	<b>Interface</b>			
L	totalSupply	External !		NO !
































L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	balanceOf	External !		NO !
L	transfer	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !
<b>IWrappedNative</b>	<b>Interface</b>			
L	totalSupply	External !		NO !
L	decimals	External !		NO !
L	symbol	External !		NO !
L	name	External !		NO !
L	transfer	External !		NO !
L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !
L	deposit	External !		NO !
L	withdraw	External !		NO !
<b>IFlavorsChainData</b>	<b>Interface</b>			
L	chainId	External !		NO !
L	router	External !		NO !
L	tokenName	External !		NO !



L	tokenSymbol	External !		NO !
L	wrappedNative	External !		NO !
<b>IBridge</b>	<b>Interface</b>			
L	initialize	External !		NO !
L	pauseBridge_OAD	External !		NO !
L	unPauseBridge_OAD	External !		NO !
L	updateOwnable_OAD	External !		NO !
L	burnItAllDown_OO	External !		NO !
L	updateOwner_OO	External !		NO !
L	updateIceCreamMan_OO	External !		NO !
L	sendDepositToCreamery	External !		NO !
L	waitToCross	External !		NO !
L	owner	External !		NO !
L	Ownable	External !		NO !
L	bridgeTroll	External !		NO !
L	iceCreamMan	External !		NO !
L	initialized	External !		NO !
L	FlavorsToken	External !		NO !
L	bridgePaused	External !		NO !
<b>ICreamery</b>	<b>Interface</b>			
L	initialize	External !		NO !
L	burnItAllDown_OO	External !		NO !


























L	launch_OFT	External !		NO !
L	weSentYouSomething_OFT	External !		NO !
L	updateOwnable_OAD	External !		NO !
L	deposit	External !		NO !
L	spiltMilk_OAUTH	External !		NO !
<b>IDEXFactory</b>	<b>Interface</b>			
L	getPair	External !		NO !
L	allPairs	External !		NO !
L	allPairsLength	External !		NO !
L	feeTo	External !		NO !
L	feeToSetter	External !		NO !
L	createPair	External !		NO !
<b>IDEXPair</b>	<b>Interface</b>			
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
L	totalSupply	External !		NO !
L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transfer	External !		NO !
L	transferFrom	External !		NO !
L	DOMAIN_SEPARATOR	External !		NO !

L	PERMIT_TYPEHASH	External !		NO !
L	nonces	External !		NO !
L	permit	External !		NO !
L	MINIMUM_LIQUIDITY	External !		NO !
L	factory	External !		NO !
L	token0	External !		NO !
L	token1	External !		NO !
L	getReserves	External !		NO !
L	price0CumulativeLast	External !		NO !
L	price1CumulativeLast	External !		NO !
L	kLast	External !		NO !
L	mint	External !		NO !
L	burn	External !		NO !
L	swap	External !		NO !
L	skim	External !		NO !
L	sync	External !		NO !
L	initialize	External !		NO !
<b>IDEXRouter</b>	<b>Interface</b>			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !		NO !
L	addLiquidityETH	External !		NO !
L	removeLiquidity	External !		NO !

















































L	removeLiquidityETH	External !		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		NO !
L	swapExactTokensForTokens	External !		NO !
L	swapTokensForExactTokens	External !		NO !
L	swapExactETHForTokens	External !		NO !
L	swapTokensForExactETH	External !		NO !
L	swapExactTokensForETH	External !		NO !
L	swapETHForExactTokens	External !		NO !
L	quote	External !		NO !
L	getAmountOut	External !		NO !
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO !
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactETHForTokensSupporting	External !		NO !


















































	FeeOnTransferTo kens			
L	swapExactTokens ForETHSupporting FeeOnTransferTo kens	External !		NO !
<b>IFlavorDripper</b>	<b>Interface</b>			
L	claimDividend	External !		NO !
L	customBuyerContr actCallback_OCB	External !		NO !
L	setFlavorDistCriter ia_OAD	External !		NO !
L	updateOwnableFla vors_OAD	External !		NO !
L	process_OFT	External !		NO !
L	setShare_OFT	External !		NO !
L	deposit_OFT	External !		NO !
L	updateFlavorsTok en_OO	External !		NO !
L	updateFlavor_OO	External !		NO !
L	updateRouter_OO	External !		NO !
L	initialize	External !		NO !
<b>IOwnableFlavors</b>	<b>Interface</b>			
L	isAdmin	External !		NO !
L	isAuthorized	External !		NO !
L	upgrade	External !		NO !
L	initialize0	External !		NO !
L	initialize1	External !		NO !

























L	updateDripper0_O AD	External !		NO !
L	updateDripper1_O AD	External !		NO !
L	pair	External !		NO !
L	owner	External !		NO !
L	bridge	External !		NO !
L	router	External !		NO !
L	ownable	External !		NO !
L	flavor0	External !		NO !
L	flavor1	External !		NO !
L	dripper0	External !		NO !
L	dripper1	External !		NO !
L	creamery	External !		NO !
L	bridgeTroll	External !		NO !
L	iceCreamMan	External !		NO !
L	flavorsToken	External !		NO !
L	wrappedNative	External !		NO !
L	pending_owner	External !		NO !
L	flavorsChainData	External !		NO !
L	pending_iceCream Man	External !		NO !
L	customBuyerContr act0	External !		NO !
L	customBuyerContr act1	External !		NO !
<b>IPresaleFLV</b>	<b>Interface</b>			

L	enableClaims_OF T	External !		NO !
L	isOG_OFT	External !		NO !
L	canHolderSell_OF T	External !		NO !
Flavors	Implementation	Context, IERC20		
L	initialize	Public !		initializer0
L	startTheMusic_OI CM	Public !		onlyIceCreamMan
L	enablePresaleClai ms_OICM	External !		onlyIceCreamMan
L	_enablePresaleCl aims	Internal 		
L	getMoreInfo	External !		NO !
L	setPresales_OICM	External !		onlyIceCreamMan
L	_setPresale0	Internal 		
L	_setPresale1	Internal 		
L	_setPresale2	Internal 		
L	getPresaleInfo0	External !		NO !
L	presaleClaim	External !		onlyPresale
L	toggleSellRestrict Presale_OICM	External !		onlyIceCreamMan
L	_sellRestrictions	Internal 		
L	checkCanHolderS ell	Internal 		
L	setBalance_OB	External !		onlyBridge
L	_setBalance	Internal 		
L	addBalance_OB	External !		onlyBridge



L	_addBalance	Internal 		
L	subBalance_OB	External 		onlyBridge
L	_subBalance	Internal 		
L	setTotalSupply_OB	External 		onlyBridge
L	_setTotalSupply	Internal 		
L	addTotalSupply_OB	External 		onlyBridge
L	_addTotalSupply	Internal 		
L	subTotalSupply_OB	External 		onlyBridge
L	_subTotalSupply	Internal 		
L	updateThresholds	Internal 		
L	setMaxTxPortion_OAD	External 		onlyAdmin
L	setSwapThresholdPortion_OAD	External 		onlyAdmin
L	cream	Private 		
L	melt	Private 		
L	getRate	Internal 		
L	addLiquidityETH	Public 		NO 
L	creamAndFreeze_OAUTH	Public 		onlyAuthorized
L	_creamAndFreeze	Internal 		
L	transferLiquidity	Internal 		
L	spiltMilk_OC	External 		onlyCreamery
L	updateShares_OB	External 		onlyBridge
L	_updateShares	Private 		
L	approve	Public 		NO 

L	_approve	Private 		
L	approveMax	Public 		NO 
L	addAllowance_OB	External 		onlyBridge
L	_addAllowance	Internal 		
L	_subAllowance	Internal 		
L	increaseAllowance	Public 		NO 
L	decreaseAllowance	Public 		NO 
L	transfer	Public 		NO 
L	transferFrom	Public 		NO 
L	_transfer	Internal 		
L	_tokenTransfer	Internal 		
L	swapAndSend_OATH	External 		onlyAuthorized
L	_processDrips	Internal 		
L	_swapAndSend	Internal 		
L	swapWithJimmyForQuarters	Internal 		
L	toggleIsFeeExempt_OAD	External 		onlyAdmin
L	toggleIsLiquidityPool_OAD	External 		onlyAdmin
L	toggleIsTxLimitExempt_OAD	External 		onlyAdmin
L	toggleIsDividendExempt_OAD	External 		onlyAdmin
L	_setIsDividendExempt	Internal 		
L	setFees_OAD	External 		onlyAdmin
L	setGas_OAD	External 		onlyAdmin

L	updateDripper0_OO	External !		onlyOwnable
L	_updateDripper0	Internal 		
L	updateDripper1_OO	External !		onlyOwnable
L	_updateDripper1	Private 		
L	upgradeOwnableFlavors_OICM	External !		onlyIceCreamMan
L	_updateOwnable	Internal 		
L	updateCreamery_OO	External !		onlyOwnable
L	_updateCreamery	Internal 		
L	updateIceCreamMan_OO	External !		onlyOwnable
L	_updateIceCreamMan	Internal 		
L	updateBridge_OO	External !		onlyOwnable
L	_updateBridge	Internal 		
L	updateRouter_OO	External !		onlyOwnable
L	_updateRouter	Internal 		
L	_deployPool	Internal 		
L	launchedAt	External !		NO !
L	balanceOf	Public !		NO !
L	allowance	Public !		NO !
L	getFees	External !		NO !
L	getGas	External !		NO !
L	getAddresses0	External !		NO !
L	getAddresses1	External !		NO !
L	checkTxRxsZeroAddress	Internal 		



























L	checkIsGreaterThanOrEqualToZero	Internal 🔒		
L	checkTxLimits	Internal 🔒		
L	adminWithdrawalValue_OAD	External !	🛑	onlyAdmin
L	_adminWithdrawal	Internal 🔒	🛑	
L	adminTokenWithdrawal_OAD	External !	🛑	onlyAdmin
L	checkHasBalance	Internal 🔒		
L	forwardToCreamery	Public !	💰	NO !
L		External !	💰	NO !
L		External !	💰	NO !














































### Legend
















Symbol	Meaning
🛑	Function can modify state
💰	Function is payable












## FlavorDripper1 Inheritance



Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithV alue	Internal 		
L	functionCallWithV alue	Internal 		
L	_functionCallWith Value	Private 		
SafeMath	Library			
L	tryAdd	Internal 		
L	trySub	Internal 		
L	tryMul	Internal 		
L	tryDiv	Internal 		
L	tryMod	Internal 		
L	add	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	sub	Internal 		
L	div	Internal 		
L	mod	Internal 		













Context	Implementation			
L	_msgSender	Internal 		
L	_msgValue	Internal 		
L	_msgData	Internal 		
IERC20	Interface			
L	totalSupply	External 		NO 
L	decimals	External 		NO 
L	symbol	External 		NO 
L	name	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
IWrappedNative	Interface			
L	totalSupply	External 		NO 
L	decimals	External 		NO 
L	symbol	External 		NO 
L	name	External 		NO 
L	transfer	External 		NO 
L	balanceOf	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 















L	deposit	External ¶		NO¶
L	withdraw	External ¶		NO¶
<b>IFlavorsChainData</b>	<b>Interface</b>			
L	chainId	External ¶		NO¶
L	router	External ¶		NO¶
L	tokenName	External ¶		NO¶
L	tokenSymbol	External ¶		NO¶
L	wrappedNative	External ¶		NO¶
<b>IBridge</b>	<b>Interface</b>			
L	initialize	External ¶		NO¶
L	pauseBridge_OAD	External ¶		NO¶
L	unPauseBridge_OAD	External ¶		NO¶
L	updateOwnable_OAD	External ¶		NO¶
L	burnItAllDown_OO	External ¶		NO¶
L	updateOwner_OO	External ¶		NO¶
L	updateIceCreamMan_OO	External ¶		NO¶
L	sendDepositToCreamery	External ¶		NO¶
L	waitToCross	External ¶		NO¶
L	owner	External ¶		NO¶
L	Ownable	External ¶		NO¶
L	bridgeTroll	External ¶		NO¶
L	iceCreamMan	External ¶		NO¶

L	initialized	External ¶		NO¶
L	FlavorsToken	External ¶		NO¶
L	bridgePaused	External ¶		NO¶
<b>ICreamery</b>	<b>Interface</b>			
L	initialize	External ¶		NO¶
L	burnItAllDown_OO	External ¶		NO¶
L	launch_OFT	External ¶		NO¶
L	weSentYouSomet hing_OFT	External ¶		NO¶
L	updateOwnable_O AD	External ¶		NO¶
L	deposit	External ¶		NO¶
L	spiltMilk_OAUTH	External ¶		NO¶
<b>IDEXFactory</b>	<b>Interface</b>			
L	getPair	External ¶		NO¶
L	allPairs	External ¶		NO¶
L	allPairsLength	External ¶		NO¶
L	feeTo	External ¶		NO¶
L	feeToSetter	External ¶		NO¶
L	createPair	External ¶		NO¶
<b>IDEXPair</b>	<b>Interface</b>			
L	name	External ¶		NO¶
L	symbol	External ¶		NO¶
L	decimals	External ¶		NO¶












































































L	totalSupply	External ¶		NO¶
L	balanceOf	External ¶		NO¶
L	allowance	External ¶		NO¶
L	approve	External ¶	⬢	NO¶
L	transfer	External ¶	⬢	NO¶
L	transferFrom	External ¶	⬢	NO¶
L	DOMAIN_SEPARATOR	External ¶		NO¶
L	PERMIT_TYPEHASH	External ¶		NO¶
L	nonces	External ¶		NO¶
L	permit	External ¶	⬢	NO¶
L	MINIMUM_LIQUIDITY	External ¶		NO¶
L	factory	External ¶		NO¶
L	token0	External ¶		NO¶
L	token1	External ¶		NO¶
L	getReserves	External ¶		NO¶
L	price0CumulativeLast	External ¶		NO¶
L	price1CumulativeLast	External ¶		NO¶
L	kLast	External ¶		NO¶
L	mint	External ¶	⬢	NO¶
L	burn	External ¶	⬢	NO¶
L	swap	External ¶	⬢	NO¶
L	skim	External ¶	⬢	NO¶
L	sync	External ¶	⬢	NO¶
L	initialize	External ¶	⬢	NO¶



















































IDEXRouter	Interface			
L	factory	External ¶		NO¶
L	WETH	External ¶		NO¶
L	addLiquidity	External ¶		NO¶
L	addLiquidityETH	External ¶		NO¶
L	removeLiquidity	External ¶		NO¶
L	removeLiquidityETH	External ¶		NO¶
L	removeLiquidityWithPermit	External ¶		NO¶
L	removeLiquidityETHWithPermit	External ¶		NO¶
L	swapExactTokensForTokens	External ¶		NO¶
L	swapTokensForExactTokens	External ¶		NO¶
L	swapExactETHForTokens	External ¶		NO¶
L	swapTokensForExactETH	External ¶		NO¶
L	swapExactTokensForETH	External ¶		NO¶
L	swapETHForExactTokens	External ¶		NO¶
L	quote	External ¶		NO¶
L	getAmountOut	External ¶		NO¶
L	getAmountIn	External ¶		NO¶
L	getAmountsOut	External ¶		NO¶
L	getAmountsIn	External ¶		NO¶











































L	removeLiquidityETHSupportingFeeOnTransferTokens	External ⚠		NO⚠
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External ⚠		NO⚠
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External ⚠		NO⚠
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External ⚠		NO⚠
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External ⚠		NO⚠
<b>IFlavorDripper</b>	<b>Interface</b>			
L	claimDividend	External ⚠		NO⚠
L	customBuyerContractCallback_OCB	External ⚠		NO⚠
L	setFlavorDistCriteria_OAD	External ⚠		NO⚠
L	updateOwnableFlavors_OAD	External ⚠		NO⚠
L	process_OFT	External ⚠		NO⚠
L	setShare_OFT	External ⚠		NO⚠
L	deposit_OFT	External ⚠		NO⚠
L	updateFlavorsToken_OO	External ⚠		NO⚠
L	updateFlavor_OO	External ⚠		NO⚠
L	updateRouter_OO	External ⚠		NO⚠

L	initialize	External ¶	⬢	NO¶
<b>IOwnableFlavors</b>	<b>Interface</b>			
L	isAdmin	External ¶	⬢	NO¶
L	isAuthorized	External ¶		NO¶
L	upgrade	External ¶	⬢	NO¶
L	initialize0	External ¶	⬢	NO¶
L	initialize1	External ¶	⬢	NO¶
L	updateDripper0_O AD	External ¶	⬢	NO¶
L	updateDripper1_O AD	External ¶	⬢	NO¶
L	pair	External ¶		NO¶
L	owner	External ¶		NO¶
L	bridge	External ¶		NO¶
L	router	External ¶		NO¶
L	ownable	External ¶		NO¶
L	flavor0	External ¶		NO¶
L	flavor1	External ¶		NO¶
L	dripper0	External ¶		NO¶
L	dripper1	External ¶		NO¶
L	creamery	External ¶		NO¶
L	bridgeTroll	External ¶		NO¶
L	iceCreamMan	External ¶		NO¶
L	flavorsToken	External ¶		NO¶
L	wrappedNative	External ¶		NO¶
L	pending_owner	External ¶		NO¶
































L	flavorsChainData	External 		NO 
L	pending_iceCreamMan	External 		NO 
L	customBuyerContract0	External 		NO 
L	customBuyerContract1	External 		NO 
<b>IPresaleFLV</b>	<b>Interface</b>			
L	enableClaims_OF T	External 		NO 
L	isOG_OF T	External 		NO 
L	canHolderSell_OF T	External 		NO 
<b>Flavors</b>	<b>Implementation</b>	<b>Context, IERC20</b>		
L	initialize	Public 		initializer0
L	startTheMusic_OI CM	Public 		onlyIceCreamMan
L	enablePresaleClaims_OICM	External 		onlyIceCreamMan
L	_enablePresaleClaims	Internal 		
L	getMoreInfo	External 		NO 
L	setPresales_OICM	External 		onlyIceCreamMan
L	_setPresale0	Internal 		
L	_setPresale1	Internal 		
L	_setPresale2	Internal 		
L	getPresaleInfo0	External 		NO 
L	presaleClaim	External 		onlyPresale

L	toggleSellRestrictPresale_OICM	External !		onlyIceCreamMan
L	_sellRestrictions	Internal 		
L	checkCanHolderSell	Internal 		
L	setBalance_OB	External !		onlyBridge
L	_setBalance	Internal 		
L	addBalance_OB	External !		onlyBridge
L	_addBalance	Internal 		
L	subBalance_OB	External !		onlyBridge
L	_subBalance	Internal 		
L	setTotalSupply_OB	External !		onlyBridge
L	_setTotalSupply	Internal 		
L	addTotalSupply_OB	External !		onlyBridge
L	_addTotalSupply	Internal 		
L	subTotalSupply_OB	External !		onlyBridge
L	_subTotalSupply	Internal 		
L	updateThresholds	Internal 		
L	setMaxTxPortion_OAD	External !		onlyAdmin
L	setSwapThresholdPortion_OAD	External !		onlyAdmin
L	cream	Private 		
L	melt	Private 		
L	getRate	Internal 		
L	addLiquidityETH	Public !		NO !

L	creamAndFreeze_OAUTH	Public 		onlyAuthorized
L	_creamAndFreeze	Internal 		
L	transferLiquidity	Internal 		
L	spiltMilk_OC	External 		onlyCreamery
L	updateShares_OB	External 		onlyBridge
L	_updateShares	Private 		
L	approve	Public 		NO 
L	_approve	Private 		
L	approveMax	Public 		NO 
L	addAllowance_OB	External 		onlyBridge
L	_addAllowance	Internal 		
L	_subAllowance	Internal 		
L	increaseAllowance	Public 		NO 
L	decreaseAllowance	Public 		NO 
L	transfer	Public 		NO 
L	transferFrom	Public 		NO 
L	_transfer	Internal 		
L	_tokenTransfer	Internal 		
L	swapAndSend_OAUTH	External 		onlyAuthorized
L	_processDrips	Internal 		
L	_swapAndSend	Internal 		
L	swapWithJimmyForQuarters	Internal 		
L	toggleIsFeeExempt_OAD	External 		onlyAdmin



L	toggleIsLiquidityPool_OAD	External 		onlyAdmin
L	toggleIsTxLimitExempt_OAD	External 		onlyAdmin
L	toggleIsDividendExempt_OAD	External 		onlyAdmin
L	_setIsDividendExempt	Internal 		
L	setFees_OAD	External 		onlyAdmin
L	setGas_OAD	External 		onlyAdmin
L	updateDripper0_OO	External 		onlyOwnable
L	_updateDripper0	Internal 		
L	updateDripper1_OO	External 		onlyOwnable
L	_updateDripper1	Private 		
L	upgradeOwnableFlavors_OICM	External 		onlyIceCreamMan
L	_updateOwnable	Internal 		
L	updateCreamery_OO	External 		onlyOwnable
L	_updateCreamery	Internal 		
L	updateIceCreamMan_OO	External 		onlyOwnable
L	_updateIceCreamMan	Internal 		
L	updateBridge_OO	External 		onlyOwnable
L	_updateBridge	Internal 		
L	updateRouter_OO	External 		onlyOwnable
L	_updateRouter	Internal 		
L	_deployPool	Internal 		
L	launchedAt	External		NO



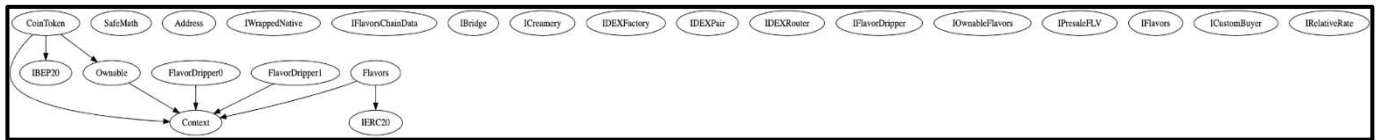
L	balanceOf	Public 		NO 
L	allowance	Public 		NO 
L	getFees	External 		NO 
L	getGas	External 		NO 
L	getAddresses0	External 		NO 
L	getAddresses1	External 		NO 
L	checkTxRxlsZero Address	Internal 		
L	checkIsGreaterTh anZero	Internal 		
L	checkTxLimits	Internal 		
L	adminWithdrawalV alue_OAD	External 		onlyAdmin
L	_adminWithdrawal	Internal 		
L	adminTokenWithdr awal_OAD	External 		onlyAdmin
L	checkHasBalance	Internal 		
L	forwardToCreamer y	Public 		NO 
L		External 		NO 
L		External 		NO 

## CoinToken Graph

### Legend



































Symbol	Meaning
	Function can modify state
	Function is payable













# CoinToken Inheritance
























## SafeEarn Graph



















Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Address	Library			
L	isContract	Internal		
L	sendValue	Internal		
L	functionCall	Internal		
L	functionCall	Internal		
L	functionCallWithV alue	Internal		
L	functionCallWithV alue	Internal		
L	_functionCallWith Value	Private		
SafeMath	Library			
L	tryAdd	Internal		
L	trySub	Internal		
L	tryMul	Internal		
L	tryDiv	Internal		
L	tryMod	Internal		
L	add	Internal		
L	sub	Internal		












L	mul	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	sub	Internal 		
L	div	Internal 		
L	mod	Internal 		
<b>Context</b>	<b>Implementation</b>			
L	_msgSender	Internal 		
L	_msgValue	Internal 		
L	_msgData	Internal 		
<b>IERC20</b>	<b>Interface</b>			
L	totalSupply	External 		NO 
L	decimals	External 		NO 
L	symbol	External 		NO 
L	name	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
<b>IWrappedNative</b>	<b>Interface</b>			
L	totalSupply	External 		NO 
L	decimals	External 		NO 

L	symbol	External ¶		NO¶
L	name	External ¶		NO¶
L	transfer	External ¶		NO¶
L	balanceOf	External ¶		NO¶
L	allowance	External ¶		NO¶
L	approve	External ¶		NO¶
L	transferFrom	External ¶		NO¶
L	deposit	External ¶		NO¶
L	withdraw	External ¶		NO¶
<b>IFlavorsChainData</b>	<b>Interface</b>			
L	chainId	External ¶		NO¶
L	router	External ¶		NO¶
L	tokenName	External ¶		NO¶
L	tokenSymbol	External ¶		NO¶
L	wrappedNative	External ¶		NO¶
<b>IBridge</b>	<b>Interface</b>			
L	initialize	External ¶		NO¶
L	pauseBridge_OAD	External ¶		NO¶
L	unPauseBridge_OAD	External ¶		NO¶
L	updateOwnable_OAD	External ¶		NO¶
L	burnItAllDown_OO	External ¶		NO¶
L	updateOwner_OO	External ¶		NO¶
L	updateIceCreamMan_OO	External ¶		NO¶












L	sendDepositToCreamery	External ¶		NO¶
L	waitToCross	External ¶		NO¶
L	owner	External ¶		NO¶
L	Ownable	External ¶		NO¶
L	bridgeTroll	External ¶		NO¶
L	iceCreamMan	External ¶		NO¶
L	initialized	External ¶		NO¶
L	FlavorsToken	External ¶		NO¶
L	bridgePaused	External ¶		NO¶
<b>ICreamery</b>	<b>Interface</b>			
L	initialize	External ¶		NO¶
L	burnItAllDown_OO	External ¶		NO¶
L	launch_OFT	External ¶		NO¶
L	weSentYouSomething_OFT	External ¶		NO¶
L	updateOwnable_OAD	External ¶		NO¶
L	deposit	External ¶		NO¶
L	spiltMilk_OAUTH	External ¶		NO¶
<b>IDEXFactory</b>	<b>Interface</b>			
L	getPair	External ¶		NO¶
L	allPairs	External ¶		NO¶
L	allPairsLength	External ¶		NO¶
L	feeTo	External ¶		NO¶
L	feeToSetter	External ¶		NO¶










L	createPair	External ¶		NO¶
<b>IDEXPair</b>	<b>Interface</b>			
L	name	External ¶		NO¶
L	symbol	External ¶		NO¶
L	decimals	External ¶		NO¶
L	totalSupply	External ¶		NO¶
L	balanceOf	External ¶		NO¶
L	allowance	External ¶		NO¶
L	approve	External ¶		NO¶
L	transfer	External ¶		NO¶
L	transferFrom	External ¶		NO¶
L	DOMAIN_SEPARATOR	External ¶		NO¶
L	PERMIT_TYPEHASH	External ¶		NO¶
L	nonces	External ¶		NO¶
L	permit	External ¶		NO¶
L	MINIMUM_LIQUIDITY	External ¶		NO¶
L	factory	External ¶		NO¶
L	token0	External ¶		NO¶
L	token1	External ¶		NO¶
L	getReserves	External ¶		NO¶
L	price0CumulativeLast	External ¶		NO¶
L	price1CumulativeLast	External ¶		NO¶
L	kLast	External ¶		NO¶















































L	mint	External ¶		NO¶
L	burn	External ¶		NO¶
L	swap	External ¶		NO¶
L	skim	External ¶		NO¶
L	sync	External ¶		NO¶
L	initialize	External ¶		NO¶
<b>IDEXRouter</b>	<b>Interface</b>			
L	factory	External ¶		NO¶
L	WETH	External ¶		NO¶
L	addLiquidity	External ¶		NO¶
L	addLiquidityETH	External ¶		NO¶
L	removeLiquidity	External ¶		NO¶
L	removeLiquidityETH	External ¶		NO¶
L	removeLiquidityWithPermit	External ¶		NO¶
L	removeLiquidityETHWithPermit	External ¶		NO¶
L	swapExactTokensForTokens	External ¶		NO¶
L	swapTokensForExactTokens	External ¶		NO¶
L	swapExactETHForTokens	External ¶		NO¶
L	swapTokensForExactETH	External ¶		NO¶
L	swapExactTokensForETH	External ¶		NO¶
L	swapETHForExactTokens	External ¶		NO¶
























































L	quote	External ¶		NO¶
L	getAmountOut	External ¶		NO¶
L	getAmountIn	External ¶		NO¶
L	getAmountsOut	External ¶		NO¶
L	getAmountsIn	External ¶		NO¶
L	removeLiquidityETHSupportingFeeOnTransferTokens	External ¶		NO¶
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External ¶		NO¶
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External ¶		NO¶
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External ¶		NO¶
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External ¶		NO¶
<b>IFlavorDripper</b>	<b>Interface</b>			
L	claimDividend	External ¶		NO¶
L	customBuyerContractCallback_OCB	External ¶		NO¶
L	setFlavorDistCriteria_OAD	External ¶		NO¶
L	updateOwnableFlavors_OAD	External ¶		NO¶
L	process_OFT	External ¶		NO¶
L	setShare_OFT	External ¶		NO¶


















































































L	deposit_OFT	External ¶		NO¶
L	updateFlavorsToken_OO	External ¶		NO¶
L	updateFlavor_OO	External ¶		NO¶
L	updateRouter_OO	External ¶		NO¶
L	initialize	External ¶		NO¶
<b>IOwnableFlavors</b>	<b>Interface</b>			
L	isAdmin	External ¶		NO¶
L	isAuthorized	External ¶		NO¶
L	upgrade	External ¶		NO¶
L	initialize0	External ¶		NO¶
L	initialize1	External ¶		NO¶
L	updateDripper0_OAD	External ¶		NO¶
L	updateDripper1_OAD	External ¶		NO¶
L	pair	External ¶		NO¶
L	owner	External ¶		NO¶
L	bridge	External ¶		NO¶
L	router	External ¶		NO¶
L	ownable	External ¶		NO¶
L	flavor0	External ¶		NO¶
L	flavor1	External ¶		NO¶
L	dripper0	External ¶		NO¶
L	dripper1	External ¶		NO¶
L	creamery	External ¶		NO¶
L	bridgeTroll	External ¶		NO¶

L	iceCreamMan	External ↴		NO ↴
L	flavorsToken	External ↴		NO ↴
L	wrappedNative	External ↴		NO ↴
L	pending_owner	External ↴		NO ↴
L	flavorsChainData	External ↴		NO ↴
L	pending_iceCream Man	External ↴		NO ↴
L	customBuyerContr act0	External ↴		NO ↴
L	customBuyerContr act1	External ↴		NO ↴
<b>IPresaleFLV</b>	<b>Interface</b>			
L	enableClaims_OF T	External ↴		NO ↴
L	isOG_OFT	External ↴		NO ↴
L	canHolderSell_OF T	External ↴		NO ↴
<b>Flavors</b>	<b>Implementation</b>	<b>Context, IERC20</b>		
L	initialize	Public ↴		initializer0
L	startTheMusic_OI CM	Public ↴		onlyIceCream Man
L	enablePresaleClai ms_OICM	External ↴		onlyIceCream Man
L	_enablePresaleCl aims	Internal 🔒		
L	getMoreInfo	External ↴		NO ↴
L	setPresales_OICM	External ↴		onlyIceCream Man
L	_setPresale0	Internal 🔒		



L	_setPresale1	Internal 		
L	_setPresale2	Internal 		
L	getPresaleInfo0	External 		NO 
L	presaleClaim	External 		onlyPresale
L	toggleSellRestrict Presale_OICM	External 		onlyIceCream Man
L	_sellRestrictions	Internal 		
L	checkCanHolderS ell	Internal 		
L	setBalance_OB	External 		onlyBridge
L	_setBalance	Internal 		
L	addBalance_OB	External 		onlyBridge
L	_addBalance	Internal 		
L	subBalance_OB	External 		onlyBridge
L	_subBalance	Internal 		
L	setTotalSupply_O B	External 		onlyBridge
L	_setTotalSupply	Internal 		
L	addTotalSupply_O B	External 		onlyBridge
L	_addTotalSupply	Internal 		
L	subTotalSupply_O B	External 		onlyBridge
L	_subTotalSupply	Internal 		
L	updateThresholds	Internal 		
L	setMaxTxPortion_ OAD	External 		onlyAdmin
L	setSwapThreshold Portion_OAD	External 		onlyAdmin
L	cream	Private 		

L	melt	Private 		
L	getRate	Internal 		
L	addLiquidityETH	Public 		NO 
L	creamAndFreeze_ OAUTH	Public 		onlyAuthorized
L	_creamAndFreeze	Internal 		
L	transferLiquidity	Internal 		
L	spiltMilk_OC	External 		onlyCreamery
L	updateShares_OB	External 		onlyBridge
L	_updateShares	Private 		
L	approve	Public 		NO 
L	_approve	Private 		
L	approveMax	Public 		NO 
L	addAllowance_OB	External 		onlyBridge
L	_addAllowance	Internal 		
L	_subAllowance	Internal 		
L	increaseAllowance	Public 		NO 
L	decreaseAllowance	Public 		NO 
L	transfer	Public 		NO 
L	transferFrom	Public 		NO 
L	_transfer	Internal 		
L	_tokenTransfer	Internal 		
L	swapAndSend_ ATH	External 		onlyAuthorized
L	_processDrips	Internal 		
L	_swapAndSend	Internal 		

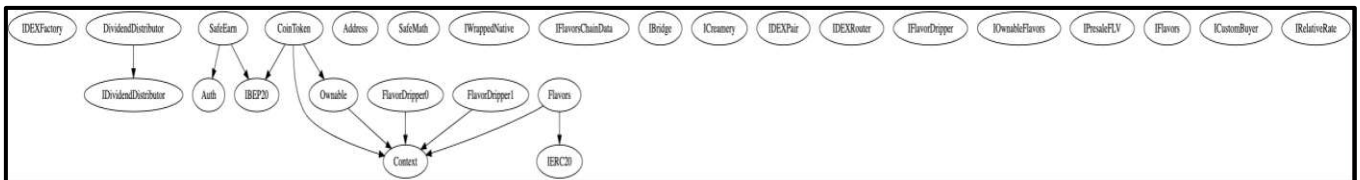
L	swapWithJimmyForQuarters	Internal 		
L	toggleIsFeeExempt_OAD	External 		onlyAdmin
L	toggleIsLiquidityPool_OAD	External 		onlyAdmin
L	toggleIsTxLimitExempt_OAD	External 		onlyAdmin
L	toggleIsDividendExempt_OAD	External 		onlyAdmin
L	_setIsDividendExempt	Internal 		
L	setFees_OAD	External 		onlyAdmin
L	setGas_OAD	External 		onlyAdmin
L	updateDripper0_OO	External 		onlyOwnable
L	_updateDripper0	Internal 		
L	updateDripper1_OO	External 		onlyOwnable
L	_updateDripper1	Private 		
L	upgradeOwnableFlavors_OICM	External 		onlyIceCreamMan
L	_updateOwnable	Internal 		
L	updateCreamery_OO	External 		onlyOwnable
L	_updateCreamery	Internal 		
L	updateIceCreamMan_OO	External 		onlyOwnable
L	_updateIceCreamMan	Internal 		
L	updateBridge_OO	External 		onlyOwnable
L	_updateBridge	Internal 		
L	updateRouter_OO	External 		onlyOwnable

L	_updateRouter	Internal 		
L	_deployPool	Internal 		
L	launchedAt	External 		NO 
L	balanceOf	Public 		NO 
L	allowance	Public 		NO 
L	getFees	External 		NO 
L	getGas	External 		NO 
L	getAddresses0	External 		NO 
L	getAddresses1	External 		NO 
L	checkTxRxlsZero Address	Internal 		
L	checkIsGreaterTh anZero	Internal 		
L	checkTxLimits	Internal 		
L	adminWithdrawalV alue_OAD	External 		onlyAdmin
L	_adminWithdrawal	Internal 		
L	adminTokenWithdr awal_OAD	External 		onlyAdmin
L	checkHasBalance	Internal 		
L	forwardToCreamer y	Public 		NO 
L		External 		NO 
L		External 		NO 















## Legend































Symbol	Meaning
	Function can modify state
	Function is payable

## SafeEarn Inheritance

































## Creamery Graph

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithValue	Internal 		
L	functionCallWithValue	Internal 		
L	_functionCallWithValue	Private 		
SafeMath	Library			
L	tryAdd	Internal 		















L	trySub	Internal 		
L	tryMul	Internal 		
L	tryDiv	Internal 		
L	tryMod	Internal 		
L	add	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	sub	Internal 		
L	div	Internal 		
L	mod	Internal 		
<b>Context</b>	<b>Implementation</b>			
L	_msgSender	Internal 		
L	_msgValue	Internal 		
L	_msgData	Internal 		
<b>IERC20</b>	<b>Interface</b>			
L	totalSupply	External 		NO 
L	decimals	External 		NO 
L	symbol	External 		NO 
L	name	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 





























L	approve	External ¶		NO¶
L	transferFrom	External ¶		NO¶
<b>IWrappedNative</b>	<b>Interface</b>			
L	totalSupply	External ¶		NO¶
L	decimals	External ¶		NO¶
L	symbol	External ¶		NO¶
L	name	External ¶		NO¶
L	transfer	External ¶		NO¶
L	balanceOf	External ¶		NO¶
L	allowance	External ¶		NO¶
L	approve	External ¶		NO¶
L	transferFrom	External ¶		NO¶
L	deposit	External ¶		NO¶
L	withdraw	External ¶		NO¶
<b>IFlavorsChainData</b>	<b>Interface</b>			
L	chainId	External ¶		NO¶
L	router	External ¶		NO¶
L	tokenName	External ¶		NO¶
L	tokenSymbol	External ¶		NO¶
L	wrappedNative	External ¶		NO¶
<b>IBridge</b>	<b>Interface</b>			
L	initialize	External ¶		NO¶
L	pauseBridge_OAD	External ¶		NO¶






L	unPauseBridge_OAD	External ¶		NO¶
L	updateOwnable_OAD	External ¶		NO¶
L	burnItAllDown_OO	External ¶		NO¶
L	updateOwner_OO	External ¶		NO¶
L	updateIceCreamMan_OO	External ¶		NO¶
L	sendDepositToCreamery	External ¶		NO¶
L	waitToCross	External ¶		NO¶
L	owner	External ¶		NO¶
L	Ownable	External ¶		NO¶
L	bridgeTroll	External ¶		NO¶
L	iceCreamMan	External ¶		NO¶
L	initialized	External ¶		NO¶
L	FlavorsToken	External ¶		NO¶
L	bridgePaused	External ¶		NO¶
<b>ICreamery</b>	<b>Interface</b>			
L	initialize	External ¶		NO¶
L	burnItAllDown_OO	External ¶		NO¶
L	launch_OFT	External ¶		NO¶
L	weSentYouSomething_OFT	External ¶		NO¶
L	updateOwnable_OAD	External ¶		NO¶
L	deposit	External ¶		NO¶
L	spiltMilk_OAUTH	External ¶		NO¶

IDEXFactory	Interface			
L	getPair	External ¶		NO¶
L	allPairs	External ¶		NO¶
L	allPairsLength	External ¶		NO¶
L	feeTo	External ¶		NO¶
L	feeToSetter	External ¶		NO¶
L	createPair	External ¶	⦿	NO¶
IDEXPair	Interface			
L	name	External ¶		NO¶
L	symbol	External ¶		NO¶
L	decimals	External ¶		NO¶
L	totalSupply	External ¶		NO¶
L	balanceOf	External ¶		NO¶
L	allowance	External ¶		NO¶
L	approve	External ¶	⦿	NO¶
L	transfer	External ¶	⦿	NO¶
L	transferFrom	External ¶	⦿	NO¶
L	DOMAIN_SEPARATOR	External ¶		NO¶
L	PERMIT_TYPEHASH	External ¶		NO¶
L	nonces	External ¶		NO¶
L	permit	External ¶	⦿	NO¶
L	MINIMUM_LIQUIDITY	External ¶		NO¶
L	factory	External ¶		NO¶
L	token0	External ¶		NO¶

L	token1	External ¶		NO¶
L	getReserves	External ¶		NO¶
L	price0CumulativeLast	External ¶		NO¶
L	price1CumulativeLast	External ¶		NO¶
L	kLast	External ¶		NO¶
L	mint	External ¶		NO¶
L	burn	External ¶		NO¶
L	swap	External ¶		NO¶
L	skim	External ¶		NO¶
L	sync	External ¶		NO¶
L	initialize	External ¶		NO¶
<b>IDEXRouter</b>	<b>Interface</b>			
L	factory	External ¶		NO¶
L	WETH	External ¶		NO¶
L	addLiquidity	External ¶		NO¶
L	addLiquidityETH	External ¶		NO¶
L	removeLiquidity	External ¶		NO¶
L	removeLiquidityETH	External ¶		NO¶
L	removeLiquidityWithPermit	External ¶		NO¶
L	removeLiquidityETHWithPermit	External ¶		NO¶
L	swapExactTokensForTokens	External ¶		NO¶
L	swapTokensForExactTokens	External ¶		NO¶



















































L	swapExactETHForTokens	External ¶		NO¶
L	swapTokensForExactETH	External ¶		NO¶
L	swapExactTokensForETH	External ¶		NO¶
L	swapETHForExactTokens	External ¶		NO¶
L	quote	External ¶		NO¶
L	getAmountOut	External ¶		NO¶
L	getAmountIn	External ¶		NO¶
L	getAmountsOut	External ¶		NO¶
L	getAmountsIn	External ¶		NO¶
L	removeLiquidityETHSupportingFeeOnTransferTokens	External ¶		NO¶
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External ¶		NO¶
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External ¶		NO¶
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External ¶		NO¶
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External ¶		NO¶
<b>IFlavorDripper</b>	<b>Interface</b>			
L	claimDividend	External ¶		NO¶











































L	customBuyerContractCallback_OCB	External ¶		NO¶
L	setFlavorDistCriteria_OAD	External ¶		NO¶
L	updateOwnableFlavors_OAD	External ¶		NO¶
L	process_OFT	External ¶		NO¶
L	setShare_OFT	External ¶		NO¶
L	deposit_OFT	External ¶		NO¶
L	updateFlavorsToken_OO	External ¶		NO¶
L	updateFlavor_OO	External ¶		NO¶
L	updateRouter_OO	External ¶		NO¶
L	initialize	External ¶		NO¶
<b>IOwnableFlavors</b>	<b>Interface</b>			
L	isAdmin	External ¶		NO¶
L	isAuthorized	External ¶		NO¶
L	upgrade	External ¶		NO¶
L	initialize0	External ¶		NO¶
L	initialize1	External ¶		NO¶
L	updateDripper0_OAD	External ¶		NO¶
L	updateDripper1_OAD	External ¶		NO¶
L	pair	External ¶		NO¶
L	owner	External ¶		NO¶
L	bridge	External ¶		NO¶
L	router	External ¶		NO¶














































L	ownable	External ↴		NO ↴
L	flavor0	External ↴		NO ↴
L	flavor1	External ↴		NO ↴
L	dripper0	External ↴		NO ↴
L	dripper1	External ↴		NO ↴
L	creamery	External ↴		NO ↴
L	bridgeTroll	External ↴		NO ↴
L	iceCreamMan	External ↴		NO ↴
L	flavorsToken	External ↴		NO ↴
L	wrappedNative	External ↴		NO ↴
L	pending_owner	External ↴		NO ↴
L	flavorsChainData	External ↴		NO ↴
L	pending_iceCream Man	External ↴		NO ↴
L	customBuyerContr act0	External ↴		NO ↴
L	customBuyerContr act1	External ↴		NO ↴
<b>IPresaleFLV</b>	<b>Interface</b>			
L	enableClaims_OFT	External ↴		NO ↴
L	isOG_OFT	External ↴		NO ↴
L	canHolderSell_OFT	External ↴		NO ↴
<b>Flavors</b>	<b>Implementation</b>	<b>Context, IERC20</b>		
L	initialize	Public ↴		initializer0
L	startTheMusic_OIC M	Public ↴		onlyIceCreamMan

L	enablePresaleClaims_OICM	External ↓	⊗	onlyIceCreamMan
L	_enablePresaleClaims	Internal 🔒	⊗	
L	getMoreInfo	External ↓		NO↓
L	setPresales_OICM	External ↓	⊗	onlyIceCreamMan
L	_setPresale0	Internal 🔒	⊗	
L	_setPresale1	Internal 🔒	⊗	
L	_setPresale2	Internal 🔒	⊗	
L	getPresaleInfo0	External ↓		NO↓
L	presaleClaim	External ↓	⊗	onlyPresale
L	toggleSellRestrictPresale_OICM	External ↓	⊗	onlyIceCreamMan
L	_sellRestrictions	Internal 🔒	⊗	
L	checkCanHolderSell	Internal 🔒	⊗	
L	setBalance_OB	External ↓	⊗	onlyBridge
L	_setBalance	Internal 🔒	⊗	
L	addBalance_OB	External ↓	⊗	onlyBridge
L	_addBalance	Internal 🔒	⊗	
L	subBalance_OB	External ↓	⊗	onlyBridge
L	_subBalance	Internal 🔒	⊗	
L	setTotalSupply_OB	External ↓	⊗	onlyBridge
L	_setTotalSupply	Internal 🔒	⊗	
L	addTotalSupply_OB	External ↓	⊗	onlyBridge
L	_addTotalSupply	Internal 🔒	⊗	
L	subTotalSupply_OB	External ↓	⊗	onlyBridge





L	_subTotalSupply	Internal 		
L	updateThresholds	Internal 		
L	setMaxTxPortion_OAD	External 		onlyAdmin
L	setSwapThresholdPortion_OAD	External 		onlyAdmin
L	cream	Private 		
L	melt	Private 		
L	getRate	Internal 		
L	addLiquidityETH	Public 		NO 
L	creamAndFreeze_OAUTH	Public 		onlyAuthorized
L	_creamAndFreeze	Internal 		
L	transferLiquidity	Internal 		
L	spiltMilk_OC	External 		onlyCreamery
L	updateShares_OB	External 		onlyBridge
L	_updateShares	Private 		
L	approve	Public 		NO 
L	_approve	Private 		
L	approveMax	Public 		NO 
L	addAllowance_OB	External 		onlyBridge
L	_addAllowance	Internal 		
L	_subAllowance	Internal 		
L	increaseAllowance	Public 		NO 
L	decreaseAllowance	Public 		NO 
L	transfer	Public 		NO 
L	transferFrom	Public 		NO 
L	_transfer	Internal 		

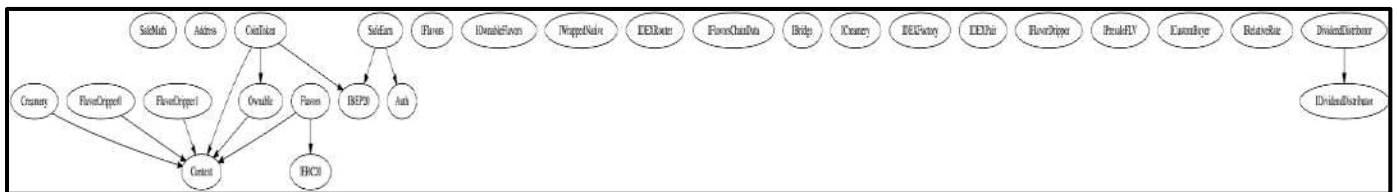
L	_tokenTransfer	Internal 		
L	swapAndSend_OA TH	External 		onlyAuthorized
L	_processDrips	Internal 		
L	_swapAndSend	Internal 		
L	swapWithJimmyFor Quarters	Internal 		
L	toggleIsFeeExempt _OAD	External 		onlyAdmin
L	toggleIsLiquidityPo ol_OAD	External 		onlyAdmin
L	toggleIsTxLimitExe mpt_OAD	External 		onlyAdmin
L	toggleIsDividendEx empt_OAD	External 		onlyAdmin
L	_setIsDividendExe mpt	Internal 		
L	setFees_OAD	External 		onlyAdmin
L	setGas_OAD	External 		onlyAdmin
L	updateDripper0_O O	External 		onlyOwnable
L	_updateDripper0	Internal 		
L	updateDripper1_O O	External 		onlyOwnable
L	_updateDripper1	Private 		
L	upgradeOwnableFl avors_OICM	External 		onlyIceCreamMan
L	_updateOwnable	Internal 		
L	updateCreamery_O O	External 		onlyOwnable
L	_updateCreamery	Internal 		
L	updateIceCreamMa n_OO	External 		onlyOwnable

L	_updateIceCreamMan	Internal 		
L	updateBridge_OO	External 		onlyOwnable
L	_updateBridge	Internal 		
L	updateRouter_OO	External 		onlyOwnable
L	_updateRouter	Internal 		
L	_deployPool	Internal 		
L	launchedAt	External 		NO 
L	balanceOf	Public 		NO 
L	allowance	Public 		NO 
L	getFees	External 		NO 
L	getGas	External 		NO 
L	getAddresses0	External 		NO 
L	getAddresses1	External 		NO 
L	checkTxRxsZeroAddress	Internal 		
L	checkIsGreaterThanZero	Internal 		
L	checkTxLimits	Internal 		
L	adminWithdrawalValue_OAD	External 		onlyAdmin
L	_adminWithdrawal	Internal 		
L	adminTokenWithdrawal_OAD	External 		onlyAdmin
L	checkHasBalance	Internal 		
L	forwardToCreamery	Public 		NO 
L		External 		NO 
L		External 		NO 














## Legend






























Symbol	Meaning
	Function can modify state
	Function is payable









## Creamery Inheritance






























## FlavorsChainData Graph

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		
L	functionCall	Internal 		
L	functionCall	Internal 		
L	functionCallWithV alue	Internal 		
L	functionCallWithV alue	Internal 		
L	_functionCallWith Value	Private 		
SafeMath	Library			













L	tryAdd	Internal 		
L	trySub	Internal 		
L	tryMul	Internal 		
L	tryDiv	Internal 		
L	tryMod	Internal 		
L	add	Internal 		
L	sub	Internal 		
L	mul	Internal 		
L	div	Internal 		
L	mod	Internal 		
L	sub	Internal 		
L	div	Internal 		
L	mod	Internal 		
<b>Context</b>	<b>Implementation</b>			
L	_msgSender	Internal 		
L	_msgValue	Internal 		
L	_msgData	Internal 		
<b>IERC20</b>	<b>Interface</b>			
L	totalSupply	External 		NO 
L	decimals	External 		NO 
L	symbol	External 		NO 
L	name	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 












L	allowance	External ¶		NO¶
L	approve	External ¶		NO¶
L	transferFrom	External ¶		NO¶
<b>IWrappedNative</b>	<b>Interface</b>			
L	totalSupply	External ¶		NO¶
L	decimals	External ¶		NO¶
L	symbol	External ¶		NO¶
L	name	External ¶		NO¶
L	transfer	External ¶		NO¶
L	balanceOf	External ¶		NO¶
L	allowance	External ¶		NO¶
L	approve	External ¶		NO¶
L	transferFrom	External ¶		NO¶
L	deposit	External ¶		NO¶
L	withdraw	External ¶		NO¶
<b>IFlavorsChainData</b>	<b>Interface</b>			
L	chainId	External ¶		NO¶
L	router	External ¶		NO¶
L	tokenName	External ¶		NO¶
L	tokenSymbol	External ¶		NO¶
L	wrappedNative	External ¶		NO¶
<b>IBridge</b>	<b>Interface</b>			
L	initialize	External ¶		NO¶

L	pauseBridge_OAD	External ¶		NO¶
L	unPauseBridge_OAD	External ¶		NO¶
L	updateOwnable_OAD	External ¶		NO¶
L	burnItAllDown_OO	External ¶		NO¶
L	updateOwner_OO	External ¶		NO¶
L	updateIceCreamMan_OO	External ¶		NO¶
L	sendDepositToCreamery	External ¶		NO¶
L	waitToCross	External ¶		NO¶
L	owner	External ¶		NO¶
L	Ownable	External ¶		NO¶
L	bridgeTroll	External ¶		NO¶
L	iceCreamMan	External ¶		NO¶
L	initialized	External ¶		NO¶
L	FlavorsToken	External ¶		NO¶
L	bridgePaused	External ¶		NO¶
<b>ICreamery</b>	<b>Interface</b>			
L	initialize	External ¶		NO¶
L	burnItAllDown_OO	External ¶		NO¶
L	launch_OFT	External ¶		NO¶
L	weSentYouSomething_OFT	External ¶		NO¶
L	updateOwnable_OAD	External ¶		NO¶
L	deposit	External ¶		NO¶

L	spiltMilk_OAUTH	External ¶		NO¶
<b>IDEXFactory</b>	<b>Interface</b>			
L	getPair	External ¶		NO¶
L	allPairs	External ¶		NO¶
L	allPairsLength	External ¶		NO¶
L	feeTo	External ¶		NO¶
L	feeToSetter	External ¶		NO¶
L	createPair	External ¶		NO¶
<b>IDEXPair</b>	<b>Interface</b>			
L	name	External ¶		NO¶
L	symbol	External ¶		NO¶
L	decimals	External ¶		NO¶
L	totalSupply	External ¶		NO¶
L	balanceOf	External ¶		NO¶
L	allowance	External ¶		NO¶
L	approve	External ¶		NO¶
L	transfer	External ¶		NO¶
L	transferFrom	External ¶		NO¶
L	DOMAIN_SEPARATOR	External ¶		NO¶
L	PERMIT_TYPEHASH	External ¶		NO¶
L	nonces	External ¶		NO¶
L	permit	External ¶		NO¶
L	MINIMUM_LIQUIDITY	External ¶		NO¶



































































































L	factory	External ¶		NO¶
L	token0	External ¶		NO¶
L	token1	External ¶		NO¶
L	getReserves	External ¶		NO¶
L	price0CumulativeLast	External ¶		NO¶
L	price1CumulativeLast	External ¶		NO¶
L	kLast	External ¶		NO¶
L	mint	External ¶		NO¶
L	burn	External ¶		NO¶
L	swap	External ¶		NO¶
L	skim	External ¶		NO¶
L	sync	External ¶		NO¶
L	initialize	External ¶		NO¶
<b>IDEXRouter</b>	<b>Interface</b>			
L	factory	External ¶		NO¶
L	WETH	External ¶		NO¶
L	addLiquidity	External ¶		NO¶
L	addLiquidityETH	External ¶		NO¶
L	removeLiquidity	External ¶		NO¶
L	removeLiquidityETH	External ¶		NO¶
L	removeLiquidityWithPermit	External ¶		NO¶
L	removeLiquidityETHWithPermit	External ¶		NO¶

L	swapExactTokens ForTokens	External ⚠		NO⚠
L	swapTokensForEx actTokens	External ⚠		NO⚠
L	swapExactETHFor Tokens	External ⚠		NO⚠
L	swapTokensForEx actETH	External ⚠		NO⚠
L	swapExactTokens ForETH	External ⚠		NO⚠
L	swapETHForExact Tokens	External ⚠		NO⚠
L	quote	External ⚠		NO⚠
L	getAmountOut	External ⚠		NO⚠
L	getAmountIn	External ⚠		NO⚠
L	getAmountsOut	External ⚠		NO⚠
L	getAmountsIn	External ⚠		NO⚠
L	removeLiquidityET HSupportingFeeO nTransferTokens	External ⚠		NO⚠
L	removeLiquidityET HWithPermitSupp ortingFeeOnTransf erTokens	External ⚠		NO⚠
L	swapExactTokens ForTokensSupport ingFeeOnTransfer Tokens	External ⚠		NO⚠
L	swapExactETHFor TokensSupporting FeeOnTransferTo kens	External ⚠		NO⚠
L	swapExactTokens ForETHSupporting FeeOnTransferTo kens	External ⚠		NO⚠












































<b>IFlavorDripper</b>	<b>Interface</b>			
L	claimDividend	External ¶	⊗	NO¶
L	customBuyerContractCallback_OCB	External ¶	⊗	NO¶
L	setFlavorDistCriteria_OAD	External ¶	⊗	NO¶
L	updateOwnableFlavors_OAD	External ¶	⊗	NO¶
L	process_OFT	External ¶	⊗	NO¶
L	setShare_OFT	External ¶	⊗	NO¶
L	deposit_OFT	External ¶	⊗	NO¶
L	updateFlavorsToken_OO	External ¶	⊗	NO¶
L	updateFlavor_OO	External ¶	⊗	NO¶
L	updateRouter_OO	External ¶	⊗	NO¶
L	initialize	External ¶	⊗	NO¶
<b>IOwnableFlavors</b>	<b>Interface</b>			
L	isAdmin	External ¶	⊗	NO¶
L	isAuthorized	External ¶		NO¶
L	upgrade	External ¶	⊗	NO¶
L	initialize0	External ¶	⊗	NO¶
L	initialize1	External ¶	⊗	NO¶
L	updateDripper0_OAD	External ¶	⊗	NO¶
L	updateDripper1_OAD	External ¶	⊗	NO¶
L	pair	External ¶		NO¶
L	owner	External ¶		NO¶

L	bridge	External ¶		NO¶
L	router	External ¶		NO¶
L	ownable	External ¶		NO¶
L	flavor0	External ¶		NO¶
L	flavor1	External ¶		NO¶
L	dripper0	External ¶		NO¶
L	dripper1	External ¶		NO¶
L	creamery	External ¶		NO¶
L	bridgeTroll	External ¶		NO¶
L	iceCreamMan	External ¶		NO¶
L	flavorsToken	External ¶		NO¶
L	wrappedNative	External ¶		NO¶
L	pending_owner	External ¶		NO¶
L	flavorsChainData	External ¶		NO¶
L	pending_iceCream Man	External ¶		NO¶
L	customBuyerContr act0	External ¶		NO¶
L	customBuyerContr act1	External ¶		NO¶
<b>IPresaleFLV</b>	<b>Interface</b>			
L	enableClaims_OF T	External ¶	⦿	NO¶
L	isOG_OFT	External ¶	⦿	NO¶
L	canHolderSell_OF T	External ¶	⦿	NO¶

Flavors	Implementation	Context, IERC20		
L	initialize	Public 		initializer0
L	startTheMusic_OICM	Public 		onlyIceCreamMan
L	enablePresaleClaims_OICM	External 		onlyIceCreamMan
L	_enablePresaleClaims	Internal 		
L	getMoreInfo	External 		NO 
L	setPresales_OICM	External 		onlyIceCreamMan
L	_setPresale0	Internal 		
L	_setPresale1	Internal 		
L	_setPresale2	Internal 		
L	getPresaleInfo0	External 		NO 
L	presaleClaim	External 		onlyPresale
L	toggleSellRestrictPresale_OICM	External 		onlyIceCreamMan
L	_sellRestrictions	Internal 		
L	checkCanHolderSell	Internal 		
L	setBalance_OB	External 		onlyBridge
L	_setBalance	Internal 		
L	addBalance_OB	External 		onlyBridge
L	_addBalance	Internal 		
L	subBalance_OB	External 		onlyBridge
L	_subBalance	Internal 		
L	setTotalSupply_OB	External 		onlyBridge
L	_setTotalSupply	Internal 		

L	addTotalSupply_OB	External 		onlyBridge
L	_addTotalSupply	Internal 		
L	subTotalSupply_OB	External 		onlyBridge
L	_subTotalSupply	Internal 		
L	updateThresholds	Internal 		
L	setMaxTxPortion_OAD	External 		onlyAdmin
L	setSwapThresholdPortion_OAD	External 		onlyAdmin
L	cream	Private 		
L	melt	Private 		
L	getRate	Internal 		
L	addLiquidityETH	Public 		NO 
L	creamAndFreeze_OAUTH	Public 		onlyAuthorized
L	_creamAndFreeze	Internal 		
L	transferLiquidity	Internal 		
L	spiltMilk_OC	External 		onlyCreamery
L	updateShares_OB	External 		onlyBridge
L	_updateShares	Private 		
L	approve	Public 		NO 
L	_approve	Private 		
L	approveMax	Public 		NO 
L	addAllowance_OB	External 		onlyBridge
L	_addAllowance	Internal 		
L	_subAllowance	Internal 		
L	increaseAllowance	Public 		NO 

L	decreaseAllowance	Public 🔒	🔒	NO 🔒
L	transfer	Public 🔒	🔒	NO 🔒
L	transferFrom	Public 🔒	🔒	NO 🔒
L	_transfer	Internal 🔒	🔒	
L	_tokenTransfer	Internal 🔒	🔒	
L	swapAndSend_OATH	External 🔒	🔒	onlyAuthorized
L	_processDrips	Internal 🔒	🔒	
L	_swapAndSend	Internal 🔒	🔒	
L	swapWithJimmyForQuarters	Internal 🔒	🔒	
L	toggleIsFeeExempt_OAD	External 🔒	🔒	onlyAdmin
L	toggleIsLiquidityPool_OAD	External 🔒	🔒	onlyAdmin
L	toggleIsTxLimitExempt_OAD	External 🔒	🔒	onlyAdmin
L	toggleIsDividendExempt_OAD	External 🔒	🔒	onlyAdmin
L	_setIsDividendExempt	Internal 🔒	🔒	
L	setFees_OAD	External 🔒	🔒	onlyAdmin
L	setGas_OAD	External 🔒	🔒	onlyAdmin
L	updateDripper0_OO	External 🔒	🔒	onlyOwnable
L	_updateDripper0	Internal 🔒	🔒	
L	updateDripper1_OO	External 🔒	🔒	onlyOwnable
L	_updateDripper1	Private 🔒	🔒	
L	upgradeOwnableFlavors_OICM	External 🔒	🔒	onlyIceCreamMan

L	_updateOwnable	Internal 		
L	updateCreamery_OO	External 		onlyOwnable
L	_updateCreamery	Internal 		
L	updateIceCreamMan_OO	External 		onlyOwnable
L	_updateIceCreamMan	Internal 		
L	updateBridge_OO	External 		onlyOwnable
L	_updateBridge	Internal 		
L	updateRouter_OO	External 		onlyOwnable
L	_updateRouter	Internal 		
L	_deployPool	Internal 		
L	launchedAt	External 		NO 
L	balanceOf	Public 		NO 
L	allowance	Public 		NO 
L	getFees	External 		NO 
L	getGas	External 		NO 
L	getAddresses0	External 		NO 
L	getAddresses1	External 		NO 
L	checkTxRxsZeroAddress	Internal 		
L	checkIsGreaterThanZero	Internal 		
L	checkTxLimits	Internal 		
L	adminWithdrawalValue_OAD	External 		onlyAdmin
L	_adminWithdrawal	Internal 		
L	adminTokenWithdrawal_OAD	External 		onlyAdmin

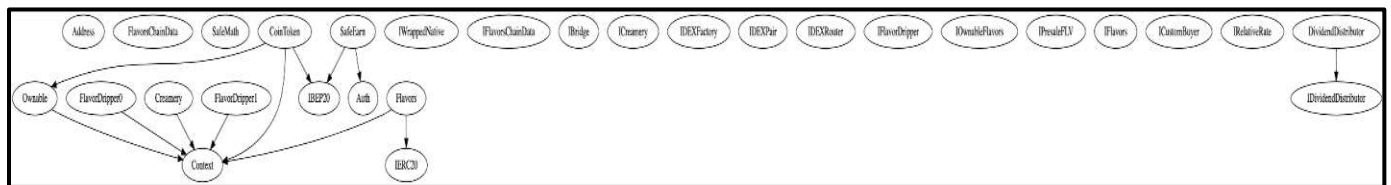


L	checkHasBalance	Internal 🔒		
L	forwardToCreamer y	Public 🚫	🔒	NO🚫
L		External 🚫	🔒	NO🚫
L		External 🚫	🔒	NO🚫

### Legend

Symbol	Meaning
🔴	Function can modify state
🔒	Function is payable

## FlavorsChainData Inheritance



# Security issue checking status

## ❖ High severity issues

- No high severity issues found.

## ❖ Medium severity issues

- No medium severity issues found.

## ❖ Low severity issues

- In the includeInReward function, if the contract uses a long wallet list, there can be an OUT\_OF\_GAS issue, better to use a small array list at once.

```
ftrace | funcSig
function includeAccount(address account↑) external onlyOwner {
    require(!_isExcluded[account↑], "Account is already included");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account↑) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account↑] = 0;
            _isExcluded[account↑] = false;
            _excluded.pop();
            break;
        }
    }
}
```

# Owner privileges

## Flavors Main Contract

- ❖ The owner can start trading in the main contract.

```
ftrace | funcSig
function startTheMusic_OICM() public payable onlyIceCreamMan {
    require(presaleFinalized == false, "FLAVORS: finalizePreSale() = Already Finalized");
    presaleFinalized = true;

    maxTx = type(uint256).max;

    uint256 value = msgValue();
    checkIsGreaterThanZero(value);
    // uint256 amount = value.mul(flvPerNativeCoin);

    fee_icm = 100;
    fee_flavor0 = 350;
    fee_flavor1 = 350;
    fee_creamery = 400;
    fee_total_buy = 1200;
    fee_total_sell = 3000;

    _creamAndFreeze(flvPerNativeCoin.mul(value).div(1e18), value);
    cream(address(0x0000000000000000000000000000000000000000000000000000000000000001), 1_000_000_000);
    cream(address(0x00000000000000000000000000000000000000000000000000000000000000dEaD), 1_000_000_000);

    // save the current block number
    launchedAtBlock = block.number;
    // save the current timestamp
    launchedAtTimestamp = block.timestamp;
    // launch the creamery
    Creamery.launch_OFT();

    // set the fees
    swapThreshold = totalSupply.div(5_000); // 0.005%
    maxTx = totalSupply.div(100); // 1%
    _enablePresaleClaims();
}
```

- ❖ The owner can enable presale.

```
ftrace | funcSig
function enablePresaleClaims_OICM() external onlyIceCreamMan { _enablePresaleClaims(); }
ftrace | funcSig
```

- ❖ The owner can restrict sales on presale mod.

```
//  
ftrace | funcSig  
function toggleSellRestrictPresale_OICM() external onlyIceCreamMan {  
    sellRestrictPresale  
    ? sellRestrictPresale = false  
    : sellRestrictPresale = true;  
}
```

- ❖ The owner can change max transaction amount and swap threshold.

```
// sets the value to 1/x of the total supply  
ftrace | funcSig  
function setMaxTxPortion_OAD(uint32 portionOfTotalSupply↑)  
    external  
    onlyAdmin  
{  
    maxTxPortionOfTotalSupply = portionOfTotalSupply↑;  
}  
  
ftrace | funcSig  
function setSwapThresholdPortion_OAD(uint32 portionOfTotalSupply↑)  
    external  
    onlyAdmin  
{  
    swapThresholdPortionOfTotalSupply = portionOfTotalSupply↑;  
}
```

- ❖ The owner can manually add liquidity.

```
ftrace | funcSig
function creamAndFreeze_OAUTH() public payable onlyAuthorized {
    uint256 value = _msgValue();
    checkIsGreaterThanZero(value);
    uint256 amount = value.div(getRate());
    _creamAndFreeze(amount, value);
}

ftrace | funcSig
function _creamAndFreeze(uint256 amount↑, uint256 value↑) internal {
    // must send native coin
    // calculate the required tokens
    cream(address(this), amount↑);
    // approve the router to spend our tokens
    approve(router, amount↑);
    // add liquidity to the pool
    (, , uint256 liquidity) = addLiquidityETH(amount↑, value↑);
    // transfer the lp
    transferLiquidity(liquidity);
}
```

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```
ftrace | funcSig
function creamAndFreeze_OAUTH() public payable onlyAuthorized {
    uint256 value = _msgValue();
    checkIsGreaterThanZero(value);
    uint256 amount = value.div(getRate());
    _creamAndFreeze(amount, value);
}

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function _creamAndFreeze(uint256 amount↑, uint256 value↑) internal {
    // must send native coin
    // calculate the required tokens
    cream(address(this), amount↑);
    // approve the router to spend our tokens
    approve(router, amount↑);
    // add liquidity to the pool
    (, , uint256 liquidity) = addLiquidityETH(amount↑, value↑);
    // transfer the lp
    transferLiquidity(liquidity);
}
```

- ❖ The owner can exempt wallets from fee, liquidity pool, max transaction limit and dividends.

```
ftrace | funcSig
function toggleIsFeeExempt_OAD(address holder↑) external onlyAdmin {
    isFeeExempt[holder↑]
    ? isFeeExempt[holder↑] = false
    : isFeeExempt[holder↑] = true;
}

ftrace | funcSig
function toggleIsLiquidityPool_OAD(address holder↑) external onlyAdmin {
    isLiquidityPool[holder↑]
    ? isLiquidityPool[holder↑] = false
    : isLiquidityPool[holder↑] = true;
}

ftrace | funcSig
function toggleIsTxLimitExempt_OAD(address holder↑) external onlyAdmin {
    isTxLimitExempt[holder↑]
    ? isTxLimitExempt[holder↑] = false
    : isTxLimitExempt[holder↑] = true;
}

ftrace | funcSig
function toggleIsDividendExempt_OAD(address holder↑) external onlyAdmin {
    isDividendExempt[holder↑]
    ? _setIsDividendExempt(holder↑, false)
    : _setIsDividendExempt(holder↑, true);
}
```

- ❖ Admin can get contract BNB balance to his wallet.

```
ftrace | funcSig
function adminWithdrawalValue_OAD(uint256 value↑) external onlyAdmin {
    _adminWithdrawal(value↑);
}

ftrace | funcSig
function _adminWithdrawal(uint256 value↑) internal {
    checkHasBalance(address(this).balance, value↑);
    Address.sendValue(payable(msgSender()), value↑);
    // 🔥 fire the log
    emit AdminWithdrawal(msgSender(), value↑);
}
```



- ❖ The owner can change all fees.

```
ftrace | funcSig
function setFees_OAD(
    uint16 fee_flavor0_↑,
    uint16 fee_flavor1_↑,
    uint16 fee_creamery_↑,
    uint16 fee_icm_↑,
    uint16 fee_total_sell_↑
) external onlyAdmin {
    // prevent internal misuse & require flavor0Fee is less than 10%
    require(
        fee_flavor0_↑ <= 1000,
        "FLAVORS: setFees() = fee_flavor0_ MUST BE LESS THAN 10% (1000)"
    );
    // prevent internal misuse & require flavor1Fee is less than 10%
    require(
        fee_flavor1_↑ <= 1000,
        "FLAVORS: setFees() = fee_flavor1_ MUST BE LESS THAN 10% (1000)"
    );
    // prevent internal misuse & require Creamery fee is less than 10%
    require(
        fee_creamery_↑ <= 1000,
        "FLAVORS: setFees() = fee_creamery_ MUST BE LESS THAN 10% (1000)"
    );
    // prevent internal misuse & require icm fee is between 1% and 3%
    require(
        100 <= fee_icm_↑ && fee_icm_↑ <= 300,
        "FLAVORS: setFees() = fee_icm_ MUST BE BETWEEN 1% (100) & 3% (300)"
    );
    // prevent internal misuse & require totalSell fee is less than 40%
    require(
        fee_total_sell_↑ <= 4000,
        "FLAVORS: setFees() = fee_total_sell_ MUST BE LESS THAN 40% (4000)"
    );
    fee_flavor0 = fee_flavor0_↑;
    fee_flavor1 = fee_flavor1_↑;
    fee_creamery = fee_creamery_↑;
    fee_icm = fee_icm_↑;
    fee_total_buy = fee_flavor0_↑ + fee_flavor1_↑ + fee_creamery_↑ + fee_icm_↑;
    fee_total_sell = fee_total_sell_↑;
    emit FeesUpdated(
        fee_flavor0,
        fee_flavor1,
        fee_creamery,
        fee_icm,
        fee_total_buy,
        fee_total_sell
    );
}
```

- ❖ The owner can change all gas fees.

```
ftrace | funcSig
function setGas_OAD(
    uint32 gas_dripper0 ↑,
    uint32 gas_dripper1 ↑,
    uint32 gas_icm ↑,
    uint32 gas_creamery ↑,
    uint32 gas_withdrawal ↑
) external onlyAdmin {
    gas_dripper0 = gas_dripper0 ↑;
    gas_dripper1 = gas_dripper1 ↑;
    gas_icm = gas_icm ↑;
    gas_creamery = gas_creamery ↑;
    gas_withdrawal = gas_withdrawal ↑;
    emit GasUpdated(
        gas_dripper0 ↑,
        gas_dripper1 ↑,
        gas_icm ↑,
        gas_creamery ↑,
        gas_withdrawal ↑
    );
}
```

- ❖ The owner can get BEP20 tokens to his wallet.

```
ftrace | funcSig
function adminTokenWithdrawal_OAD(address token ↑, uint256 amount ↑)
    external
    onlyAdmin
{
    IERC20 ERC20Instance = IERC20(token ↑);
    checkHasBalance(ERC20Instance.balanceOf(address(this)), amount ↑);
    /* prevent internal misuse or a comprised account and split any
       liquidity withdrawals between the iceCreamMan and owner.*/
    if (isLiquidityPool[token ↑]) {
        uint256 halfAmount = amount ↑.div(2);
        ERC20Instance.transfer(iceCreamMan, halfAmount);
        ERC20Instance.transfer(owner, halfAmount);
    }
    emit AdminTokenWithdrawal(msgSender(), amount ↑, token ↑);
}
```



## FlavorDripper0 Contract

- ❖ The owner can change contract gas fees.

```
ftrace | funcSig
function setGas_OAD(uint64 gas_↑, uint64 gas_low_↑) external onlyAdmin {
    gas = gas_↑;
    gas_low = gas_low_↑;
}
```

- ❖ The owner can change max iteration amount at once when distributing the rewards.

```
ftrace | funcSig
function setMaxIterations_OAD(uint32 maxIterations_↑) external onlyAdmin {
    maxIterations = maxIterations_↑;
}
```

- ❖ The owner can change max wait time when swapping tokens.

```
ftrace | funcSig
function setSwapDeadlineWaitTime_OAD(uint16 _additionalSeconds_↑)
    external
    onlyAdmin
{
    additionalSeconds = _additionalSeconds_↑;
}
```

- ❖ The owner can change the minimum distribution time period and minimum token amount to receive rewards.

```
ftrace | funcSig
function setFlavorDistCriteria_OAD(
    uint32 _minPeriod_↑,
    uint32 _minDistribution_↑
) external onlyAdmin {
    minPeriod = _minPeriod_↑;
    minDistribution = _minDistribution_↑;
}
```

- ❖ The owner can manually start processing rewards.

```
ftrace | funcSig
function process_OAD() external onlyAdmin {
    _process();
}
```

```
ftrace | funcSig
function adminTokenWithdrawal_OAD(address token↑, uint256 amount↑)
    external
    onlyAdmin
{
    IERC20 ERC20Instance = IERC20(token↑);
    require(
        ERC20Instance.balanceOf(address(this)) >= amount↑,
        "FLAVOR DRIPPER: adminTokenWithdrawal_OAD() = insufficient balance"
    );
    ERC20Instance.transfer(msgSender(), amount↑);
    emit AdminTokenWithdrawal(msgSender(), amount↑, token↑);
}

ftrace | funcSig
function updateRouter_00(address new_router↑) external onlyOwnable {
    _updateRouter(new_router↑);
}
```

## Dripper1 Contract

- ❖ The owner can change max iterations at once when sending rewards.

```
ftrace | funcSig
function setMaxIterations_OAD(uint32 maxIterations↑) external onlyAdmin {
    maxIterations = maxIterations↑;
}
```

- ❖ The owner can change maximum waiting time when swapping tokens.

```
ftrace | funcSig
function setSwapDeadlineWaitTime_OAD(uint16 _additionalSeconds↑)
    external
    onlyAdmin
{
    additionalSeconds = _additionalSeconds↑;
}
```

- ❖ The owner can manually process dividends.

```
ftrace | funcSig
function process_OAD() external onlyAdmin {
    _process();
}
```

- ❖ The owner can change relative rate settings.

```
ftrace | funcSig
function settingsRelativeRate_OAD(
    bool useExternalCalculation_↑,
    address relativeRateContract↑
) external onlyAdmin {
    useExternalCalculation = useExternalCalculation_↑;
    RelativeRate = IRelativeRate(relativeRateContract↑);
}
```

- ❖ The owner can change the relative price numerator.

```
ftrace | funcSig
function setRelativeDripPriceNumerator_OAD(
    uint256 relativeDripPriceNumerator_↑
) external onlyAdmin {
    relativeDripPriceNumerator = relativeDripPriceNumerator_↑;
}
```

- ❖ The owner can transfer tokens in contract to the owner wallet.

```

ftrace | funcSig
function adminTokenWithdrawal_OAD(address token↑, uint256 amount↑)
    external
    onlyAdmin
{
    IERC20 ERC20Instance = IERC20(token↑);
    require(
        ERC20Instance.balanceOf(address(this)) >= amount↑,
        "FLAVOR DRIPPER: adminTokenWithdrawal_OAD() = insufficient balance"
    );
    ERC20Instance.transfer(msgSender(), amount↑);
    emit AdminTokenWithdrawal(msgSender(), amount↑, token↑);
}

```

## Flavor0 contract

- ❖ The owner can include/exclude wallets from rewards.

```

ftrace | funcSig
function excludeAccount(address account↑) external onlyOwner {
    require(!_isExcluded[account↑], "Account is already excluded");
    if (_rOwned[account↑] > 0) {
        _tOwned[account↑] = tokenFromReflection(_rOwned[account↑]);
    }
    _isExcluded[account↑] = true;
    _excluded.push(account↑);
}

ftrace | funcSig
function includeAccount(address account↑) external onlyOwner {
    require(_isExcluded[account↑], "Account is already included");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account↑) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account↑] = 0;
            _isExcluded[account↑] = false;
            _excluded.pop();
            break;
        }
    }
}

```

- ❖ The owner can change the charity address.

```
ftrace | funcSig
function setAsCharityAccount(address account↑) external onlyOwner {
    FeeAddress = account↑;
}
```

- ❖ The owner can update all fees.

```
ftrace | funcSig
function updateFee(
    uint256 _txFee↑,
    uint256 _burnFee↑,
    uint256 _charityFee↑
) public onlyOwner {
    require(_txFee↑ < 100 && _burnFee↑ < 100 && _charityFee↑ < 100);
    TAX_FEE = _txFee↑ * 100;
    BURN_FEE = _burnFee↑ * 100;
    CHARITY_FEE = _charityFee↑ * 100;
    ORIG_TAX_FEE = TAX_FEE;
    ORIG_BURN_FEE = BURN_FEE;
    ORIG_CHARITY_FEE = CHARITY_FEE;
}
```

## Flavor0 contract

- ❖ The owner can manually trigger buy back.

```
ftrace | funcSig
function triggerZeusBuyback(uint256 amount↑, bool triggerBuybackMultiplier↑)
    external
    authorized
{
    buyTokens(amount↑, DEAD);
    if (triggerBuybackMultiplier↑) {
        buybackMultiplierTriggeredAt = block.timestamp;
        emit BuybackMultiplierActive(buybackMultiplierLength);
    }
}
```



- ❖ The owner can reset buyback multiplier time.

```
ftrace | funcSig
function clearBuybackMultiplier() external authorized {
    buybackMultiplierTriggeredAt = 0;
}
```

- ❖ The owner can change buyback settings.

```
ftrace | funcSig
function setAutoBuybackSettings(
    bool _enabled↑,
    uint256 _cap↑,
    uint256 _amount↑,
    uint256 _period↑
) external authorized {
    autoBuybackEnabled = _enabled↑;
    autoBuybackCap = _cap↑;
    autoBuybackAccumulator = 0;
    autoBuybackAmount = _amount↑;
    autoBuybackBlockPeriod = _period↑;
    autoBuybackBlockLast = block.number;
}
```

- ❖ The owner can change the max transaction limit.

```
ftrace | funcSig
function setTxLimit(uint256 amount↑) external authorized {
    require(amount↑ >= _totalSupply / 1000);
    _maxTxAmount = amount↑;
}
```

- ❖ The owner can exclude wallets from dividend, fees and max transaction limit.

```
ftrace | funcSig
function setIsDividendExempt(address holder↑, bool exempt↑)
    external
    authorized
{
    require(holder↑ != address(this) && holder↑ != pair);
    isDividendExempt[holder↑] = exempt↑;
    if (exempt↑) {
        distributor.setShare(holder↑, 0);
    } else {
        distributor.setShare(holder↑, _balances[holder↑]);
    }
}

ftrace | funcSig
function setIsFeeExempt(address holder↑, bool exempt↑) external authorized {
    isFeeExempt[holder↑] = exempt↑;
}

ftrace | funcSig
function setIsTxLimitExempt(address holder↑, bool exempt↑)
    external
    authorized
{
    isTxLimitExempt[holder↑] = exempt↑;
}
```

- ❖ The owner can change swap back settings.

```
ftrace | funcSig
function setSwapBackSettings(bool _enabled↑, uint256 _amount↑)
    external
    authorized
{
    swapEnabled = _enabled↑;
    swapThreshold = _amount↑;
}
```

- ❖ The owner can change all fees and fee receivers.

```
ftrace | funcSig
function setFees(
    uint256 _liquidityFee↑,
    uint256 _buybackFee↑,
    uint256 _reflectionFee↑,
    uint256 _marketingFee↑,
    uint256 _feeDenominator↑
) external authorized {
    liquidityFee = _liquidityFee↑;
    buybackFee = _buybackFee↑;
    reflectionFee = _reflectionFee↑;
    marketingFee = _marketingFee↑;
    totalFee = _liquidityFee↑.add(_buybackFee↑).add(_reflectionFee↑).add(
        _marketingFee↑
    );
    feeDenominator = _feeDenominator↑;
    require(totalFee < feeDenominator / 4);
}

ftrace | funcSig
function setFeeReceivers(
    address _autoLiquidityReceiver↑,
    address _marketingFeeReceiver↑
) external {
    autoLiquidityReceiver = _autoLiquidityReceiver↑;
    marketingFeeReceiver = _marketingFeeReceiver↑;
}
```

- ❖ The owner can change target liquidity.

```
ftrace | funcSig
function setTargetLiquidity(uint256 _target↑, uint256 _denominator↑)
    external
    authorized
{
    targetLiquidity = _target↑;
    targetLiquidityDenominator = _denominator↑;
}
```



- ❖ The owner can change the distribution criteria.

```
ftrace | funcSig
function setDistributionCriteria(
    uint256 _minPeriod↑,
    uint256 _minDistribution↑
) external authorized {
    distributor.setDistributionCriteria(_minPeriod↑, _minDistribution↑);
}
```

- ❖ The owner can change max gas fees for the distributor.

```
ftrace | funcSig
function setDistributorSettings(uint256 gas↑) external authorized {
    require(gas↑ < 750000);
    distributorGas = gas↑;
}
```

## Creamery contract

- ❖ The owner can manually purchase tokens using BNBs.

```
ftrace | funcSig
function spiltMilk_OAD(uint256 value↑) external onlyAdmin {
    // create an empty 2 position trading path
    address[] memory path = new address[](2);
    // trade path stop 0 wraps the native coin (example: BNB => WBNB)
    path[0] = wrappedNative;
    // trade path stop 1 swaps the wrapped native token for the flavors token.
    path[1] = flavorsToken;
    // perform the swap
    // swapping native coin from the creamery's balance for the flavors token,
    // and sending the flavors token to the flavors token contract
    uint256[] memory amounts = Router.getAmountsOut(value↑, path);
    Router.swapExactETHForTokensSupportingFeeOnTransferTokens(value↑: value↑)(
        // uint amountOutMin
        0,
        // address[] calldata path,
        path,
        // address to,
        // send the purchased tokens to the flavors token contract to be melted
        address(this),
        // uint deadline
        block.timestamp
    );
    flavorsToken.transfer(address(flavorsToken), amounts[1]);
    flavorsToken.spiltMilk_OC(amounts[1]);
}
```

- ❖ The owner can change the process wait period.

```
ftrace | funcSig
function setStandardPeriodLength_OAD(
    uint256 days_↑,
    uint256 hours_↑,
    uint256 minutes_↑,
    uint256 seconds_↑
) external onlyAdmin {
    uint256 new_waitingPeriod_seconds = buildPeriodLength(
        days_↑,
        hours_↑,
        minutes_↑,
        seconds_↑
    );
    uint256 old_waitingPeriod_seconds = periodLength;
    periodLength = new_waitingPeriod_seconds;
    emit WaitingPeriodChanged(
        msgSender(),
        old_waitingPeriod_seconds,
        new_waitingPeriod_seconds
    );
}
```

- ❖ The owner can remove withdrawal power and recurring payments from the wallet.

```
ftrace | funcSig
function nukeAccount_OAD(address account↑) external onlyAdmin {
    // revoke accounts withdrawal authorization
    withdrawAuthorized[account↑] = false;
    // set accounts recurring payment to zero
    recurringAmount[account↑] = 0;
    // set accounts last period collected to the current one
    lastPeriodCalculated[account↑] = periodsElapsed();
    // set accounts remaining withdrawable balance to zero
    withdrawable[account↑] = 0;
    // set accounts recurring payment to false
    recurringPayment[account↑] = false;
}
```

- ❖ The owner can authorize normal and recurring payments for wallets.

```
ftrace | funcSig
function authorizePayment_OAD(
    uint256 _amount↑,
    address _adr↑,
    bool isRecurring↑
) external onlyAdmin {
    // authorize the account to withdraw
    withdrawAuthorized[_adr↑] = true;
    //SITUATION 1//
    //1-time payment//
    if (isRecurring↑ == false) {
        // add the authorized amount to the accounts withdrawable balance
        _addWithdrawable(_adr↑, _amount↑);
        // 🔥 fire off a log and we out.
        emit PaymentAuthorized(msgSender(), _amount↑, _adr↑, isRecurring↑);
        emit AuthorizedWithdrawalRemaining(_adr↑, withdrawable[_adr↑]);
        //SITUATION 2//
        //CHANGE A RECURRING PAYMENT//
    } else if (isRecurring↑ == true) {
        if (recurringPayment[_adr↑] == true) {
            // calculate any past periods that haven't
            // yet been added to the withdrawable balance
            // This also updates the lastPeriodCalculated;
            updateWithdrawable(_adr↑);
            // store the new recurring amount.
            recurringAmount[_adr↑] = _amount↑;
            // Withdrawable payments will accrue at the new
            // rate for the entirety of the current period.
            //SITUATION 3//
            //THIS IS A NEW RECURRING PAYMENT//
        } else if (recurringPayment[_adr↑] == false) {
            // set the accounts recurringPayment status to 'true'
            recurringPayment[_adr↑] = true;
            // store the recurring amount
            recurringAmount[_adr↑] = _amount↑;
            // set the most recent period to this period
            lastPeriodCalculated[_adr↑] = periodsElapsed();
            // withdrawable payments will start accruing at the
            // next waiting period rollover. 🔥 Fire a log:
            emit PaymentAuthorized(
                msgSender(),
                _amount↑,
                _adr↑,
                isRecurring↑
            );
        }
    }
}
```

- ❖ The owner can withdraw contract BNBs to the owner's wallet.

```
ftrace | funcSig
function adminWithdrawalValue_OAD(uint256 value↑) external onlyAdmin {
    _adminWithdrawal(value↑);
}
```

## Audit conclusion

While conducting the audit of the FlavorsBSC smart contract, it was observed that there is nothing alarming with the code and it only contains a low severity issue.