Section Perspectation P	1A 1A1				
NameNameNameName2 manage10 manage10 manage10 manage2 manage10 manage10 manage10 manage3 manage10 manage10 manage4 manage10 manage10 manage5 manage10 manage10 manage5 manage10 manage10 manage6 manage10 manage10 manage6 manage10 manage10 manage7 manage10 manage10 manage8 manage10 manage10 manage8 manage10 manage10 manage9 manage10 manage10 manage9 manage10 manage	.41		An unrestricted CALL to an unknown address m waterability is a generalization of SA1 Restron- The cable calls the call when it was	Description 1. Millious Environment, Franchischer ar Inpart 1. Millious Environment, Franchischer ar Inpart 1. Millious Environment, Franchischer ar Inpart 1. Millious Environment 1. Millious	
	141.1	Reestancy with ETH sanster Reestancy without ETH sanster	This occurs when an external contract calls bac are finalized. This can allow the attacker to without in this case, the contract does not transfer \$16- attackers to modify at the conditions unintracker.	is into the as stract that initiated the ETH transfer before the case changes push as balance updates; uses now funds than introded. Similarly but may will have a mentioncy vulnerability because of a recursive call, which might allow of our entrode.	Reentancy 6th , Unitale Credit Transfer Reentancy No Eth , Unitale System State Changes
	181.3	Reestancy with care-effect Reestancy Vulneobility with Negative Events	attackers to modify stored or perform unintended finis form of mentrancy occurs when the seneral This form of mentrancy involves an attacker trig to cause underliable outcomes such as fore of if the logic of a su stract depend on maintains, can manipulate the contract by increasing its to.	of grantism mustiple casts with the came effect oping eargine or devolution must place causing a contractor fiel or exploit the as strand's vulnerability fronts, contained consist maters, give exect tolations in our age forward of querying the environment from the constrainations; stractors across without regions of excels. This can exact investigate the processor of the constraination as the	Renorancy Benigs Renorancy Evens Unespected Effect, Manipulated balance, Unespected Estance, Unespected Effect balance
3 will am semi process of the content of the cont	181 182	Facing Etherts contracts Pre-sect Store	beneficiary of a dis LFDESTRUCT operation on a deployed. Foocing 6 then to connacts can be achieved by a mining award. Pre-cent 6 ther can be achieved by predicting the	mining meast, or by predicting the constacts address and sending filter below the constact gets sing the constact's address as the beneficiary of a SELENESTREAT operation or as the moview of a constact's address and sending 6 therefore the constact gets deployed.	Unprinted fit or Balance, Balance equally, Shirt Balance Equally, Improper Locking Checks in Force's increase balance, Force Sencing Etherwith this balance check in requirer assembly.
3 will am semi process of the content of the cont	1D 2A	Vulneable Delegaticali Black State Expendency	Performing a DELEGATECASE or CALLCODE in malicious catine can manipulate the catier's sta The contracting of should not use block inform can manipulate them to a certain extent, or they	mustion to an units that address. Code invoked via these types of calls is run in the caller's contain. or validate as if fully controlline balance. 2. Balactimas in validations are compared producing. 2. Balactimas in validations are contain the duple describe. Mit en their controlline their values and may be subject to change from the management and may be subject to change from the management and may be subject to change from the management and may be subject to the controlline or	Delegate cut to consusted Cabler , Delegate cutto in secure Constacts, Unitable delegate , Check on super address in delegatectal, Delegate cutt Block into Dependency
3 March 1988 March 1989	282	Black sumberdependency	The block's timestamp should not be used for sales and can manipulate the a certain event, of Using the block is umber bears similar risks as u- miners can also manipulate the block number. Blockhash usage vulneability results from the	section accidates in or critical time-dependencies in the constant logic. Mines have care not over this rithe value may be enabled to largest forcether masses. In prime block in the masses is the timestamp and should not be used in critical operations, as usage, in critical operations, or block that variables. A malicial summère can manipulate this value.	Time contrastine, Time manipulation, Time secretions, Block values as a proxy for time to correct Use of Svent Blockchair variables for Time Blockchair usage
3 March 1988 March 1989	285	Transaction-ordering dependency	- magic of a contact should not depend on the and may do as deliberarily to malicious residents network and the sime it is included in a bis oct, as flamewhere and evidence by miners based on the flamewhere and process proper agreement the arrises and send send an equilibrium and send an equil	IN PROTOCOLOGICA DE CONTROLLA DE PROCEDO DE LA COMPACIONA DE LA SERVICIA DE LA SERVICIA DE LA SERVICIA DE LA CONTROLLA DE LA C	Event-extening bugs, incorrect Function Call Claber Race condition
3 March 1988 March 1989	282		seed an equivalent standard or with a much high processed fifths, causing a form-our ring stance. In the case of this vuln adulty, the order in uni- influence may ence so unly recurrin, for instance. This issue refers to the case where the vulne of the file is sent to the exclusive that standards or other file is sent to the exclusive to standards or other.	sel gas per han the opposit on its execute of the only large par, the section basis according to the best of the capital on its execute of the section of the capital of th	
3 March 1988 March 1989	284	Transfer Recipient Depending on Transaction Order	grouped is ablack and elected is a specific or in the case of this defect, the transfer recipient is immedia recipient address is stood as a stoog changed or overwithin by anoth or transaction of Random numbers are importantly application.	Set taking the effect of producing unexpected changes is the value-being transferred modified before the set of wort Coe to translation and eiting within a takin. As an example, if the validation and a transfer is to execute the store of this address, there is a chance for address may be set to the Passorier. It is becomes and of this address, the six before the sold it is to other and grame to ut are afficult to enemate. Using plotted blocks also validates, such as	
18 John State of the property of the proper	3C1	Randomness Using Block Hash			
18	26 261	Unpedictable state	phiste or internal in the source code. Therefore, Casting contacts on bitraries in the business log known vulnerabilities or, more simply, the air en their vulnerability happens when a untact contact contact loads if he controls these contacts.	exception and commitment observes an important as protest secretarismostics. Ic of a constant can head to sup-indicable effect, help can self-demost, be updated later, and contain or when defening to them. The secular as as a predictable effect, codepends on supdatable components (other emiscontrattics). Therefore, the attacker can change the	Status, respiral secrets, titura-spossas, con-chair doctors asputation, taccincy season, Reposal exact, proecopping planted data and chair, Secrets Uncate Esernal Library Call, Esernal Library Calling
18		References to descripped contracts	contact tage of the contract to a contact, and function, also known as cucide in eather version any semaining little (File) at the sale trace is sent Using existing stitutions and open-nauro codes; to course codes and libraries sementall safe and or	extroped constructed in the point cut that has been terminated or self-destructed via the self-destruct is called legs, where a cut stacks destructed from the blockschain, and the appendix address. In a specified address. In a servery content project is a very useful procision to accide interventing the senses. However, appropriately extended procision to a process of the content conte	Use of Massickus Libraries
18	264		those added codes may introduce hidden with So lidity allows programmers to use any address inconect address to a smart contract construct of address plasmeter avoid as or, Simut contract may initiative an external bibody in their contract	recipitated in a supporting construct, resulting particular construction to conceal multicloses code by providing an true sparaments. This milesase of address a parameters in the constructor underscores the importance or other need to insuce-other construct code by inferencing their addresses. For instance, a developer constructing, with inference provided caving explanyment. While their lappe such may seen	Missas of address parameters in the constructs (Vidue assigned to constact address
way be a commany of the commany of			legismae and pass a code audit, providing the contract (such as shoney port could be called Like elemnal command elecution, smart contra lecults. So melimes, contracts may opt to streamline th	wong address during deployment can cream a security-volverability. In such cases, a makicious from the Accesses address, posigle a gleighcast risk. CIX also enable access to exercisi files, but it connect be assured tharmene des will society dentical e development process and socior effort by musing extend web seniors through API calls.	
	292 292	UnsafeSitemat Command Securior UnsafeSitemat Ris Access	Like external command execution, smart contra	cts also enable access to external files, but it cannot be assured that the nodes will receive identical	system command execution
ab color of the color of th	30		Low-level calls do notrales an exception on tall lead to critical vulnerabilities.	umburnetum alkoalean status. Fallingto check the ensum status, and to handle enors, adequately may	Unhand sed exception, Improper handling of exceptions, Improper Check of Low-Level. Cast Return Value, Mekhandled Exception, Unchecked external call, Check on external co- Improper Check of External Call Return Value, Improper Exception Hand ling of External
30 memoryManagement of the control of th	3#1	Unchecked send	The call function is used to send littler or execu- if the return value of call jubication indicating is Function send is an olderway to transfer littler t whether the transfer succeeded.	nt low-level function calls. Luccessi, in not checked, the contract might behave as if the call succeeded even if it falsed. Interfuneable only 2000 gas. Uses call, it returns a booken, and if this is not checked, you don't know.	Unchecked call intum values Unchecked unrafe send
NameAmount of the content	383 38	Unespected throw or revert	continuous personal de la continuous de la continuo	pident or meet the transaction, Northanding these distribution adequately can lead to critical issues, uses an autority as exception, possibly woutday is autoriseability it hands on the critical issues, uses an autority as exception, possibly woutday is autoriseability it hands on out-of-sus-exception if the production that it has more and 2000 are supplied with the call will dark as a con-of-sus-exception if the production that it is more and 2000 are supplied with the call will dark as a con-of-sus-exception if the confident of the more and 2000 are supplied with the call its order.	Improper Check on Transfer Credit Improper Use of Euroption Handling Functions Gastess send Instructions on 47 Mile
Section Process	ac .	Asset, require-onment violation			Asset virution, Assetion failure, Requirement violation, Requirement violation by the called smart contact, Require on input variable, Revent require, Exception state.
18	30		The choice of ether transfer function affects not seed to do not return an exception in case of a t	only the transfer of gas but also the elecution of the caller joender, contact because call value(q and electronistic, to contact, transferio does throw an exception if the transaction is unsuccessful. This	Wang use of Tanohr Credit Function
28 Januar	48. 481	Locked Money	A smart contract can access assets through an function for access with drawn, providing a layer formar contracts that implement payable function back. Lecking money in the smart contract could	4 - Dental of Service neemed in the property of multiclountly or fact the implementation of appoint function in the sufficient port of the service of the	Locked Ether, Resping Ether Unreschable Psychie Function
50 Per commerce de la commerce de	682 68 60	Éthericat in stander Duck with block gas limit reached			
50 MembraseMembraseMembraseMembrase61 MembraseMembraseMembraseMembrase7 MembraseMembraseMembraseMembrase8 MembraseMembraseMembrase <th< td=""><td></td><td></td><td></td><td></td><td></td></th<>					
		Oct by Exception inside loop	Operation s in side loops that may throw exception	ons and depend on external transactions to succeed are up on to DoS attacks by multicious users.	DoS under extensi influence, Wallet girling causing out of gas exception, improper Suception Handling in accept
Pate	45		to mesocuting their logic properly. This can be insecution, the token transfers or payment clien to Suitably smart contracts, as "overpoweredrophilitiges such as modifying parameters, feeding and security submediation. It's crucial for development.	construction with the block or disrupt operation is, expectably in queens that depends us collection for the depends of the de	sociance Revert Implementation in a Loop Chack as compowered side
Pate			Using call was epican be problematic when the establishment before the problematic when the establishment because on the sugerountees deposit made to it will not succeed, and the sen to Dod issues it the sendercontract. A subseption of where years are	encipient function in ordere investigations. In ordere in mission is commend influence goes to transporters, by default, call invokes the big popular amission is commend influence goes to transporter affiliated function, is that caux, any independent and it is not caused to the contract well in not be able to function as intended claims child storders. This volterability can load to the contract well in not be defined to any investigation of the contract with a storder of the contract with a storder of the contract when the contract with the contract when the contract with the contract when the contract with the contract when the contract when the contract with the contract when the con	
No book of the content of the conte	6H 61	Duck with failed cast: Ultraters and j in the exquiring Condition	of securing statutes and eventually in Denial of Do. of the Cast occur when a single taked participant to a lock functionality for everyone of if there is under a single taked participant to a lock functionality for everyone of if there is used in sequine logic, the logic may see	Character described in the control of the control o	unapacted trace-bull, bull-with unapacted reverthose, box by Exercal contracts
No book of the content of the conte	SA SB SC	High gas consumption of variable datatype or declaration	unibounded and costly operate is in scope the finant contract code should generally avoid the in Sariality, certain data types consume man gar leafficient access modifies for functions, such characteristics can contribute to exceptive gas of in Society.	uan se piositent to assist i sufficiency and potential both. Ficure operations and gar compy parties that concentral entire gas than recessary, the archers, and an assistant is wishing also afficience gar consumption. Similarity, choosing on exchanging to this in stand of resonation the uninconsumy, can increase encourage these ones.	municial di Salpi. Institutori Di sozio i Singuesco
No book of the content of the conte	502 50 50	Invalent Sunvalidative north ectainst constant ingit gas consumption function type Under-priced opcodes	my, we data type byte() con so that more more translations not decimine constant conclusion in a facility, functions not used in the contract to Contracts executing numerous a under privace operated in the gas cost, which may lead to Dod So Sidily provides these.	per than indexest, and the parent (EASE. of fection of public immode of either at require those gas on deployment than increase). codes may consume large amount at organize the personal to the recourse consumption is not offer share the resource consumption is not offer share. The resource consumption is not offer share the resource consumption is not offer share. The resource consumption is not offer share the resource consumption in the resource consumption is not offer share the resource consumption in the resource construction of the resource consumption is not offer share the resource consumption in the resource construction.	Vasidati yys, fiyes Vasidate kist, thong flypin i Vasidati bectassion bectamen at Hardwardstess assistati, Steing Connex Hhodifier is Variable Decisiosion Function declaration public introd of extending timp rupper das Requiements Checking
18 columns of the content of the co	ss	Transfer of all the gas	Etherum specified minimum required (2000 u recommended by Solidity but does not provide transfering all the gas. Gas transfer viability ass with thut amount; otherwise, transfer viability as	mits of gas for the receiver contracts by process the translation. The cash y function is the one parameters with the addic call, value(e)) addects all the gas the translation provides to the excipient, ent that if a specific gas amount is required to be transferred, then add c call xellue(e)) is undestinated obly addic call, value(e) is a sec.	
	u	Prodigil contact	account specified in the parameters in such ca	ular, to instance, it a contact is classed by another contract to situad a ten section to a specific in vients see, selying on mag, sendermeans that the calling context could receive the refund issued of the insensor procificion the applicant in the community run view have believed if you with two contact.	
Peak	681		or wavelets these littless, it is crucial to validated socipent addresses are provided in the parameterishing the group and officers and officers are the operation of the contract sense the waternal address in Europe Contracts shaded in the call chain between two Functions where the		Authoriscola's through surger, Tonisaction state dependency , Tonisaction edgin use, Onegrous Usage of surger, Weinig Caterriberstication
Section Process	44 481	Access control management Unpotested selfdedruction	Insufficient access control to a SELFDESTRUCT	instruction may lead to a contract's accidental or malicious destruction.	Unequent AIII, Destroyable commer, discided commer, Uncade suicide, Check on suicide, functionality, Unpartered Commer Destruction, Missing verification for program termination Paris Missing verification for program.
a selection of the content of the c	682 683	Initializing Method without Permission Check	Insufficient access control to a construct with on This winnessbilty occurs when a smart constact angone because blacks access control. This us on a public initializing method.	rowell functionality can lead to asset their. *Lindwicksion function, typically a wind to servay variables (like the owner cradinity, can be called by ually happens in privip-based or pagionalists contracts that do not a se construction and it is seal only.	Transfer Value
Political property of the p	685 685	Sending Ether to Arbitrary Declinations	In Solidity, functions inadventently declared put	blicketernal will expose an entry point that may lead to unauthorized access by malicious users.	
30 Part of the content of the conte	686.1	Function default visibility			Ontachtchinement of more are visited in successed by public/sedemat functions, Chalantchinement of more are visited from the control of the
Part	éC	Signature based vulnerabilities	Signature verification may occasionally be requi	ind in smart contracts to improve usability a reduce gas costs. By maintaining a list of all digested	In sufficient eign above inform acide
Part			apped by others user. The vulnerabilities is information to bypose the verification. However, the famility and imposed that the case of the famility and imposed that the case of chain to the than requiring the mit do an or chain to the authenticity before continuing to process.	with falling the property of the cases, point in Helder, this interact crosses a solid organization with different quality falling, making the property of the cases of the cases of the cases to make a proper process and provided the cases of the cases making the cases of the	
Part			which is a constraint for them. Some signature on other techniques that do so have this restrict presume that if a signed message came from it is select your acceptor, this may result in vulneral Hash collision is possible when the ablancode	willCushin systems by a modern this kear by presenting the submerfolly of a signed treaspealment force. As the trades of earth attriction in the depend on the value of the map, and depropagely and a sender address, there has been detected address also produced it in the above themps provide may be valed littles. (Provide) function in used with service parameters with differentiating the. The add-encode/fuckadity	Method pamit) Used for Adoltosy from in too stell-from(), improper authoricity check
Part			packs all bens in order whether or not they are as long as all of the components are in the same arrangement of components in a prior function. To call a function in some illo obchains like if the the SVM chooses what function to execute. As the SVM chooses what function to execute. As the sum of the sum of the sum of the secute.	can of an analy, element, could be transferred as as large, and healt still is recurred a serviceding evider. As stacking registrate abstraction of the last a signature verification acertain by changing the exaits a sociented by woode permission. When the last are used as function hast in the class field of his to section. Then, assed on the word, the last a sed in this operation is very wast, collisions are more likely to happen. The existence within	incurrent Age-mare Encoding
Part	ecs	Signature Malinability	Although bit has using assumed that each significance can be changed without having according by the Etherson virtual machine (EVM), is can be slightly alread by a malicious users by evaluate that seelies signatures at the contract le-	material kundique when a crypting goods or ignature scheme is implemented in Schemeut contracts, us to the planter law and still be considered legislature. One of these called "precomplied" comtacts standard is executed, which impleme are slights cover policity successy. Therefore values v _i , and soulcos different sallo signatures. If the viginate wis a component of the hash of the viginate message, and of material resources or success and contracts of the contract of the value of the viginate viginate viginate. Viginate vi	inconnect/willCode e-of-Crypnographic Signature
Part			previously signed communications. So lidity's map data enucture jointur to a hash tuned in a contract, the shall function may produce as new terminality or within one-hash table. It is part of the candidate.	abile or a distinously suese ahash function to compute an indexistor an array of district. If their maps use use the same hash value for two different memory locations, one in each map, creating a collision appreciate for this values before the collision is a remarkat from for a collision of hash values speciation of a hash behaved is, by mark care automobility. This value mability indexicoused is a	
Part	ece	Map overlap	contact that used two maps, one-foradmine of given address belanged to admine or regularly regular user so that the hash function returns the authorization. This willnessibility can be address data structure.	The committed the other for inglemed uses, as againstened of afraction that the school whether a epistemed users. In this case, an extractor can manipulate the product of elements while registering acro a state-hash results for catacit addresses in the admitted and register users, this objectivity of the extractioning map disjointment, which assems that the committed does not a se more than one map	
Per			This subsocially happens when the smart come can be hyporated by callingthe vulnerable come securing the constructoris will b! If a token context exposes mint or burn functional allows anyone to create unlimited tokens, pote anyone to create unlimited tokens, pote anyone to create unlimited tokens.	most tries to verify if the colorier is available or a small contract based on its code size. Chifornus sizely, their colorist the constructor of the small contract standards as the counce is denot the small contract while one as public or external without access westlictions, any external user can call them. Public mixer strainy infrasting the supply and deviasing the token. Public but no suid allow standards to decomy other contracts.	
	78. 781	transport of the second or the	Integer over-and un defforus occur when arithm wrop-around occurs. Integer over-and conditions occurs when arithmetic operate of the conditions occurs when arithmetic operate occurs on the arithmetic operate occurs when arithmetic occurs on the arithmetic occurs of the conditions occurs on the arithmetic occurs of the conditions occurs on the arithmetic occurs of the conditions occurs on the conditions occurs occurs occurs on the conditions occurs	y, represent your partners were to go sectioners every preventing. 3. Administration according to the prevention of the prevention of the prevention of the security	Althretic UnderflowCheeflow, Integer bug, Value assignment with too many digits
		It teger division	Handling file ating point numbers, represented a So lidity does not atmit to ating point or decimo produce results other than what come users in So lidity supports integers and grantally filed op- machine assembles types shirtser than 22 byte.	is integent, in colementy may head to inaccountains, within, and violenteablistic. If pipes and bringer division is a insept counted toward zime. This challes of including treated claim for expect. In expect, and the propresent of the pipes of the pipe	Money Issai, Fluading point & Precision
Part			sounding is incorrect if a division is performed to in a smart contact. This code is withmable to anon-checked division The convexion between signed and unsigned authoratic operators.	etuermuntiplication. Thembus, performing muntiplication before division mitigates sounding ent ences on, like dividing by ava. Segres ordinates it integers of different lengths may lead to incorrect results, as can the use of	Check on arithmetic operation , Unchecked Math, Wilson g operator
Part	702	Two carbon Bugs	CV6-2023-bitlife is a vulninability identified in bet also and the casina's balance exceeds a cen- losses for users' intracting with uthical Efform. This vulneability refers to the case-where avaita convention poscess.	Chemisma discitation version 6.1 - commit definade. This issue a lates when the combined value of air threshold, counting the abstractors be amost out this flaw ou sid-potentially used to financial unit observations of a committee that the second out the committee that the committee that is not dissipped to committee that out out of the committee that is not dissipped to committee that the committee that is not dissipped to committee that the com	Iranger Franciscon
18 of 100 miles100 mil	7C3 8A		## August 1997 # - Bad Cading Quality and Programming Lang To insearch with another contract, the programming construct appropriate love levels calls. However, though the programming this how the false in	segminisjen is van kann teksion sing unning a negapierensen ist gipt verening per sjypt ken mig ans kape Specifies it a sentace and unes itts typiccar addresses. This allows the Solidity compiler to the compiler does not granted check whether its introduce strainly matches the other created, ever preside his the contrast is coverily typic. Chelling a contrast also a variety letters specification	Integer sign Unsafe typ e declassion, Type conversion, Wrong Function Cult
18 of 100 miles100 mil	EE EC ED	Coding water Rad coding pattern Deprecated source language features Use of assembly	may known unknowed entry points, with argun Codingenors, including typics and other devel Use of various coding patterns that are regarded. The use of depreciated targuage features is disc The use of accent by instructions in high-level of	nents introgreda differently than espected. gger errors. Je Bad style. Je Bad	Immunoblebugs, typographics erar, coding bug Use and ay access of solidally function, Use of beginning Functions. Assembly Sand-vursmobilities, Usage of assembly, Encryptice Assembly Usage.
18 of 100 miles100 mil	861 862		Function types are supported by sensity, in of type, it is possible to call the function statedon "Instore" or the assign operator, as attacker mig changes. Functions declared as con-transity universely productions declared as con-transity universely.	in words, pathelesce is a fractional wide a militarying application can be given to a volunce of an authoria, such a visibilità entre privile lango offere francisco. If the developer unificate parenting framework promocisco size the paint and incision type-visibilità in any code in struction, presiding excessivy validations and state parentingly codes. Con stance Privileter was contracted before shortisting in Science and state parentingly codes. Con stance Privileter was contracted before shortisting in Science and state parentingly codes. Con stance Privileter was contracted before shortisting in Science and Science	Adultinary jump. Control Flow Indjack, Function type a salables assignment using adultinary values, Specify function variables as any type, Adultinary Function Jump visit in a Resemble Constant functions, (menop existing
Section Personal process	162 16		The use of assembly within a Solidity can struct to mintal it especial based on the source cod- complation and deployment procedures. So sidly support multiple inheritation, which co function. This is resolved using CB Lit exitation.	ar tem aujoutane the contracts deploy years spooses can significantly after the deployed bytecode it. This appoints exploits the frieldability of the BVM to execute loan-level operation that bygasse transfer in lead to an ambiguity called to a Colomo of Poblem if the air man base contracts, called the same , which leads to a deferministic method resolution is take. Programment unitions of this appear may, which leads to a deferministic method resolution is take. Programment unitions of this appear may.	Wang class inhertance-order
tage of the content	80 801	Use of Same Variable or Function Name is inherhed Contact	This humanous when county-waishier named	of the format of the formation built. Encounteries in Society, countries a variable with the name now	
mage of the content	863	Use of the Same Yaribble or Function Name In a Single Contract Michaeling source code	conflicts with the function that mu in the case. This subneability effect to cases where the case, the effection of the validate of the class, security Malicious actions may apply serious stategies to Right Fo-Left-Oweride is a special Unicode chair.	all disks. Anamenic used for impose than one variable or function in side-the contract. This makes the program los- ing the validate of the function as its sole- contracts are of side-mailticous contract code behavior and trick users. Contract-1005 [must allow it the use of signote-infifit printactions within the technorism with your and set	API is care sizemicy
tage of the content	1143 1143	Michaeling data location Hidden built-in symbols	in a hidden way. This way, the logic of the control Do not clarify the reference types of local variab this sub-exability happens when the developer must contract development has go age and cau- Missing logic, logical entire, or dead code-can or	act can be completely although without a union being awaie of it. see of most, many, or mapping of the colorly language. This action could change the default behavior of the ear a value in represent of the colorly language. This action could change the default behavior of the ear a value in registration. This action could be a survey and behavior and value actions to the color of the color	Modifying etongeamay by value Builthin symbol rishadowing, Use of deprecated builthin symbolis Logical enters or dead code, Builthines Logic values billings, Wong Logic
tage of the content	#13 #12	Code with no effects Unused validate	This defect refers to the declaration of variables memory. As a consequence, the gas cost of ele-	that are not used in the contract, which results directly in the allocation of unnecessary space in curing the contract increases as well as the attack surface of the contract. Other effects are related to	No effect cod e secución Presence of unused validates
18. May 19 Amounts of the control o	800 884	Unused etalement	It suredly, some functions return values (e.g., which is a proceed under table sourception. As unused statement is a like of code that each season. This valuesability effect to a mixing enturn type contains the function of the common terms.	Last, sales, designification del canting successed or trainine. The contract grain and or close hot fault these serious — the fort instance, the stander successed where it closes; — the contract the serious seriou	
18. May 19 Amounts of the control o	236	Missing type in variable declaration	This may lead to unexpected results once the co to Sociality, whenever a variable is declared with computation may lead to bigher complete, in go instance, the compiler may infer that a signed in	uiting contact receives the warm duta type. Lot an usuacidated type, the complex infers the data type based on the socigened value. This additional set and memory usage and expendibly ablows this overflow or a sideflow problems to occur. For reger in the right of storpe for a certain variable, where an a resigned integer should be used.	Unsafe gg sixtereoce, Insecureinterence
Metapolity	807 838 839	Mosing Input Validation Function resum type mismatch	the variable boat and on the contact is which is Missing incomplishment where to not walking a	being a sad narismus or normalass nussad to Austrians halls sausing there in look or smaath sauss	Militarios .
Metapolity	#150 #155		This issuement to a divergence regarding the ty- do newith the sight function name and argumen in Society, this possible to specify a type for each gas container in the type of function. This value associated with this type of function. This value	pec of segument, used is not a citie or the implements, an interface, in this chuston, even if the call is in, the EVM is a stales it to be a note estated hands a soon of the call is in the call in the call is in the call in the call is in the call in the ca	
Metapolity	8112	Redundant Functionality	reported in Etherworn's Gith-List (Etherworn's Gith function results in a problem (i.e., to avoid this Constacts that are written with reducidant has bid createst a function and later (by bad practices) or new function and fixes it, but the old function wr	sud, 2023) in which a scale valuable of evention operation from stoogers to remony it inche a pure problem, the function they set had the view) routily increase code size and make make make raintabley difficult. In a simple scenario, a programmer of size context per sound to the context of the context	
# Membrase	EK EL	is ad equate or incorrect logging or documentation	developer becomes malicious o ris compromis implement correctly and without flaws. Inadequate logging and documentation can co	ed, the updated contract can be come mulicious. The updating methods themselves are also hard to triuse, lead to logical errors or unexpected behavior, as if hamper auditing or testing the code for	Opgraduble contract, Parching
Part	an.	Double constructor	This vulneability happens when the smart cont	mach and finding the accounts a live address. It cannot connect to these a double continues to the could lead to a segment of all and or in the resculed county cone during the Statistics of a consult is excelled and droply market time and inhalises that the appoint continuous, less, and with the or tract benefit of these fit of polycyment time and inhalises.	
Part		Extraneous Feld Declaration	which may result is implement such tasks in which may result is seen thy problems.) This unknowledge occur when a smuct or count be accidentally accessed or manipulated. This is the numbers to represent the credits je.g., Etherscomment on the countries of the countries of the countries of the countries of the countries.	To contain a pure 9 to extend y moved (e.g., validation may be set with inconscivuluse code gothers or contains annual or entirecturally field disclarations, and these field a mayoritiety parcealise or can be a lead to be considered create access a code or unseperced behavior calling aggregate (c) can be very large (e.g., because with many digits are difficult to inside and review). Thus it is	
Section Process Proc	11	Shoraddess	The EVM pade with zeroes if the provided address if client sanitation checks are it adequate.	8 - Environment Configuration issues as is shorter than the required length. Contain addresses with trailing zeroes are vulnerable to attackers.	
sign of personne state of the personne state	sc so		code. The same compiler version and flags that were of should be faceled for the correct compiler version. So me smart contact based tokens do not adhievable can introduce serious vulnerabilities with	uriginally used for tests should be used wheel deploying the smart contact. Therefore, the pragma is. In the sit taxobility of the community, such as the set on OpenDepletin, premising clinic injustus. For exempt, come missen't shall be set for those errors where they premising critical injustus. For exempt, come missen't shall be set for those errors where they	Roating compiler version, Undersemined Program Version Prevalence Token standard incompatibility, Unmatched ERC 2015 and Aut, Extraneous Exception
Part			applicable standards (ille SPC29) or SPC291. In the Ethnesum scooywan, uman constant in and unputs of the spcines, course constant in and unputs of the retains, it does not include the medicine of the colonies, and gave wants. This issue is part functions prevents proper exist harvines.	we were well of the programs using the Application Silvay Interface policy While the ASS defined the injury who executed the Control of Association Control of Control of Association Control of Con	. Missing Fluminder, Fake-Deposit, Missing Token Welfcation of Exchange
Part			the ERC ob standard recommends to the deser- taines to up and. This allows the cation to under due cost the opposites right change significantly assumption. It spec-complete constructation units, even if the user provides more assistant and constructions.	oper thow are exception when a cond don of the collect a concent bulance does not have enough trace of the season for which there are derived no occurs plants or do see appropries and the structured of the season for which the collection are considered to the season of the season of the or the season of the collection of the season	Railing to accept new deposit, Deposit-Acceptance, Message call with hardsooked gas amount
Part	961	Call with hardcoded gas amount			
Manual of the composition of t	90	Cardiguistics and Missing Interruptor	Sac configuration of the smart contract applicat Missing backdoor mechanism in order to hand! The call stack in the Etherson Vitual Machine;	no make revenue in the same agreement as an adoption amount origins as series as and with a consist. The no bodicida con and of a secon as of with restablishe, even if the sinant constant that it is consist. The same agreement is a second or a	
Part	58k	Uninitational encougn pointer	new up to 1224 would fail due to this limit, will constraint, thevelopers the uld still be minchel of As unintained strongs pointer in 5 sixtly when uninstallable. This can inset to unexpende to requiring an rage pointers to be explicitly in their requiring and rage pointers to be explicitly in their requiring and rage pointers to be explicitly in their requiring and rage pointers to be explicitly in their requiring and rage pointers to be explicitly in their requiring and rage pointers to be explicitly in their requiring and requirements.	A countries and comp process and contributions of the contribution of comp process and comp processing as world potential knows and opportune contribute of thickney. The a variable exclusion by point or strongs but contributions of the contribution of the contribut	universe, unlimit stace bild, Stack bild, Stacks bind Buffer Charlicov Universities our gap, indistillation of stacego pointer
Part			softer Solidity version 6.4.22, con transfer we exactly from Solidity version 6.4.22, the conser- tating discarded or enacomm and APIs or in decreased performance or sourty valenciables computability with Suture updates.	expensed by writing a Noticion with the same name as the contract class containing it. However, scalar inspected mail amount closed as a new termholds of ordering construction. The contraction studies greatment or unincommented MPA in others a development can lead to insues the in. Its concern to follow bestsy collection and official encommended features to ensure code withinhill yeard. The concern to follow bestsy collection and official encommended features to ensure code withinhill yeard.	Incomect cost structor name, Constructor name, World Constructor Name
selection of the content of the cont		Invalid Wagger Check in Library	It occurs if an invalid check is implemented in the security purposes, with wrapper functions that it safe@C20 wraps the approve function in the which is a stoemitted according to the design of the design of the design of	ne wapper functions during likeasy development. Many popular likeasies are specifically devigned for implement additional checkens own original op explores to prevent potential attacks, e.g., SaleMate. adequates function. Before the commit fits 7acd, astergance can cleectly reset the adoxance, oal.	
segment of the segmen	11A	Unhandled Exception s in Library	In occurs when the library tacks exception than the equivement of solidity and may only implement supporterimentar function by constructing a SI is saidly 0.4.0 and later, abid-souds will rewest contact can eturn more than 1 byte	ing. Du lis gillowy development, the library developerinay not consider the substitutes and each give the color business families. But miles are substituted to a MOMENTAL to the table contract of the MOMENTAL to the table contract and exighter themselved use at the facilities to the development of the MOMENTAL to the table to the development of the momental contract of the color than the contract and exighter than the contract of the superiod destinating the body (it bytes), an account of the contract and produce that the contract of the contract and the contract of the contract and the contract of the contract and the contract	
segment of the segmen			Occurs when multiple independ on features are	inglemented in one method. Forecomple, the CCDGA library is used to incream the address of the says supports both 770's and for townset for in stand of creating a separate function for 5's townset. In This introduction, still such whee adversaries can fingle any, it, of ligarate visited or a new previously valid cran lead to signature-reptay attacks. The example can be found in open appeale-contact below	
selection of the content of the cont	118	is appropriate Library Extension	signatum. The recover function in the ECDSA lib additional logic was added to the winting functi (r, s, 27/28) signatum. This unintended behavio committing 547/4642.		
Part	130 130	in appropriate Using For	me size assection making the sing that complet does not issue wanings, unsupporte and introduces take, particularly during unsafe designed forwards if. The unnecessary using to convenient as it is unable in foliable.	estament or socially when the epoches servicy cours not support the given collappe, since the 1 special collision within Blood yearlings within 16 special version, with inchincus or collembolish downcarding For example, using the SuhMan Strany with incisit is influctive since SuhMan in a statement in such cause is misheading, and it is not recommended to invake Stranles by Socialgrape	
Management Man	130 130 130	It say peoplate Using Far Its as register Function Replacement	The size bases that message the same train; that it complies does not fisse warnings, unsupported and imposed to the size of t	indicated in analysis with the spillode testing years on trapport they are inchinged saided in declarating. For example, upon the state of the spillode testing and the spillode of the spill	
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