1.	What is your current occupation? *
	Mark only one oval.
	Industrial or freelance professional
	Academic or industrial researcher
	Undergraduate/graduate student
	Other:
2.	Which of the following best describes your primary job role? *
	Mark only one oval.
	Development
	Testing
	Project Management
	Other:
3.	How many years of experience do you have with your primary job role? (Please
	input a number, decimals okay) *

4.	Current country/area of residence? *			
Mark only one oval.				
	Afghanistan (AFG)			
	Albania (ALB)			
	Algeria (DZA)			
	American Samoa (ASM)			
	Andorra (AND)			
	Angola (AGO)			
	Anguilla (AIA)			
	Antigua and Barbuda (ATG)			
	Argentina (ARG)			
	Armenia (ARM)			
	Aruba (ABW)			
	Australia (AUS)			
	Austria (AUT)			
	Azerbaijan (AZE)			
	Bahamas, The (BHM)			
	Bahrain (BHR)			
	Bangladesh (BGD)			
	Barbados (BRB)			
	Belarus (BLR)			
	Belgium (BEL)			
	Belize (BLZ)			
	Benin (BEN)			
	Bermuda (BMU)			
	Bhutan (BTN)			
	Bolivia (BOL)			
	Bosnia and Herzegovina (BIH)			
	Botswana (BWA)			
	Brazil (BRA)			
	British Virgin Islands (VGB)			
	Brunei (BRN)			
	Bulgaria (BGR)			
	Burkina Faso (BFA)			

Burma (MMR)
Burundi (BDI)
Cabo Verde (CPV)
Cambodia (KHM)
Cameroon (CMR)
Canada (CAN)
Cayman Islands (CYM)
Central African Republic (CAF)
Chad (TCD)
Chile (CHL)
China (CHN)
Colombia (COL)
Comoros (COM)
Congo, Democratic Republic of the (COD)
Congo, Republic of the (COG)
Cook Islands (COK)
Costa Rica (CRI)
Cote d'Ivoire (CIV)
Croatia (HRV)
Cuba (CUB)
Curacao (CUW)
Cyprus (CYP)
Czech Republic (CZE)
Denmark (DNK)
Djibouti (DJI)
Dominica (DMA)
Dominican Republic (DOM)
Ecuador (ECU)
Egypt (EGY)
El Salvador (SLV)
Equatorial Guinea (GNQ)
Eritrea (ERI)
Estonia (EST)
Ethiopia (ETH)
Falkland Islands (Islas Malvinas) (FLK)

Faroe Islands (FRO)
Fiji (FJI)
Finland (FIN)
France (FRA)
French Polynesia (PYF)
Gabon (GAB)
Gambia, The (GMB)
Georgia (GEO)
Germany (DEU)
Ghana (GHA)
Gibraltar (GIB)
Greece (GRC)
Greenland (GRL)
Grenada (GRD)
Guam (GUM)
Guatemala (GTM)
Guernsey (GGY)
Guinea-Bissau (GNB)
Guinea (GIN)
Guyana (GUY)
Haiti (HTI)
Honduras (HND)
Hong Kong (HKG)
Hungary (HUN)
lceland (ISL)
India (IND)
Indonesia (IDN)
Iran (IRN)
Iraq (IRQ)
Ireland (IRL)
Isle of Man (IMN)
Israel (ISR)
Italy (ITA)
Jamaica (JAM)
Japan (JPN)

Jersey (JEY)
Jordan (JOR)
Kazakhstan (KAZ)
Kenya (KEN)
Kiribati (KIR)
Korea, North (PRK)
Korea, South (KOR)
Kosovo (KSV)
Kuwait (KWT)
Kyrgyzstan (KGZ)
Laos (LAO)
Latvia (LVA)
Lebanon (LBN)
Lesotho (LSO)
Liberia (LBR)
Libya (LBY)
Liechtenstein (LIE)
Lithuania (LTU)
Luxembourg (LUX)
Macau (MAC)
Macedonia (MKD)
Madagascar (MDG)
Malawi (MWI)
Malaysia (MYS)
Maldives (MDV)
Mali (MLI)
Malta (MLT)
Marshall Islands (MHL)
Mauritania (MRT)
Mauritius (MUS)
Mexico (MEX)
Micronesia, Federated States of (FSM)
Moldova (MDA)
Monaco (MCO)
Mongolia (MNG)

Montenegro (MNE)
Morocco (MAR)
Mozambique (MOZ)
Namibia (NAM)
Nepal (NPL)
Netherlands (NLD)
New Caledonia (NCL)
New Zealand (NZL)
Nicaragua (NIC)
Nigeria (NGA)
Niger (NER)
Niue (NIU)
Northern Mariana Islands (MNP)
Norway (NOR)
Oman (OMN)
Pakistan (PAK)
Palau (PLW)
Panama (PAN)
Papua New Guinea (PNG)
Paraguay (PRY)
Peru (PER)
Philippines (PHL)
Poland (POL)
Portugal (PRT)
Puerto Rico (PRI)
Qatar (QAT)
Romania (ROU)
Russia (RUS)
Rwanda (RWA)
Saint Kitts and Nevis (KNA)
Saint Lucia (LCA)
Saint Martin (MAF)
Saint Pierre and Miquelon (SPM)
Saint Vincent and the Grenadines (VCT)
Samoa (WSM)

San Marino (SMR)
Sao Tome and Principe (STP)
Saudi Arabia (SAU)
Senegal (SEN)
Serbia (SRB)
Seychelles (SYC)
Sierra Leone (SLE)
Singapore (SGP)
Sint Maarten (SXM)
Slovakia (SVK)
Slovenia (SVN)
Solomon Islands (SLB)
Somalia (SOM)
South Africa (ZAF)
South Sudan (SSD)
Spain (ESP)
Sri Lanka (LKA)
Sudan (SDN)
Suriname (SUR)
Swaziland (SWZ)
Sweden (SWE)
Switzerland (CHE)
Syria (SYR)
Taiwan (TWN)
Tajikistan (TJK)
Tanzania (TZA)
Thailand (THA)
Timor-Leste (TLS)
Togo (TG0)
Tonga (TON)
Trinidad and Tobago (TTO)
Tunisia (TUN)
Turkey (TUR)
Turkmenistan (TKM)
Tuvalu (TUV)

	Uganda (UGA)
	Ukraine (UKR)
	United Arab Emirates (ARE)
	United Kingdom (GBR)
	United States (USA)
	Uruguay (URY)
	Uzbekistan (UZB)
	Vanuatu (VUT)
	Venezuela (VEN)
	Vietnam (VNM)
	Virgin Islands (VGB)
	West Bank (WBG)
	Yemen (YEM)
	Zambia (ZMB)
	Zimbabwe (ZWE)
5.	About your current project: How many people are involved in your team? *
	Mark only one oval.
	<u> </u>
	6-10
	11-20
	21-40
	Other:

6. Your primary programming language? *				
	Mark only one oval.			
	C#			
	Go			
	Java			
	JavaScript			
	Kotlin			
	Objective-C			
	Perl			
	PHP			
	Python			
	\bigcap R			
	Ruby			
	Rust			
	Scala			
	SQL			
	Swift			
	TypeScript			
	Visual Basic			
	Other:			
7.	How knowledgeable are you about information security? *			
	Mark only one oval.			
	Not at all			
	Slightly			
	Moderately			
	Very			
	Extremely			

8.	Do you have experience with smart contracts? *
	Mark only one oval.
	Yes
	No
S	mart Contract Specific Experience
9.	For about how many years have you been developing smart contracts? (Please input a number, decimals okay) *
10.	What best describes the primary blockchain platform you currently work on? *
	Mark only one oval.
	Public blockchain
	Consortium blockchain
	Private blockchain
	Other:
11.	What best describes the blockchains you currently work on? (Please select all
	that apply) *
	Tick all that apply.
	Aeternity
	Bitcoin
	Ethereum 500
	EOS Hyperledger Fabric
	RSK
	Stellar
	Tezos
	Waves
	Other:

Tick all that apply.						
C++						
Go						
Solidity						
Java						
JavaScript LLL						
Mutan						
Serpent						
Vyper						
Other:						
How important is e	r row.	e following	g factors for	your sm	art contract	
		e following Slightly	g factors for Moderately	your sma	art contract Extremely	I d
	r row. Not at		-			۱d
Mark only one oval pe	r row. Not at		-			I d
Supporting many features Securing against	r row. Not at		-			I d
Supporting many features Securing against malicious attacks	r row. Not at		-			I d
Supporting many features Securing against malicious attacks Protecting privacy	r row. Not at		-			s?*

12. What are the programming languages that you used for developing smart

14.	About your team: Primary life cycle model? *
	Mark only one oval.
	Waterfall
	Iterative
	Agile
	Other:
15.	How often does your team release a new version of smart contracts over the past two years? *
	Mark only one oval.
	Never
	Annually
	Quarterly
	Monthly
	Weekly
	Daily
S'n	part Contract: Socurity Awaroness
311	nart Contract: Security Awareness
16.	Have you ever experienced a security issue with the smart contracts your team has developed? (Please select all that apply) *
	Tick all that apply.
	Yes, we experienced a security breach.
	Yes, a vulnerability in shipped code was discovered.
	Yes, a vulnerability in unshipped code was discovered.
	No, we have never experienced a security issue.
	☐ I don't know or prefer not to answer. Other: ☐

17.	Which resources do you use to gain security knowledge for smart contracts? (Please select all that apply) *
	Tick all that apply.
	Research Papers
	Official Forums of Blockchain Platforms
	Latest News (e.g., coindesk)
	Question and Answer Websites (e.g., Stack Overflow)
	Blockchain Security Companies (e.g., OpenZeppelin)
	Other:

Please kindly rate each statement, with respect to your experience with the primary blockchain you specified above.

18. I care about smart contract security because: *

Mark only one oval per row.

	Strong Disagree	Disagree	Neutral	Agree	Strongly Agree	I don't know.	
Software security is in my company's culture.							
My company mandates security practices in smart contract development.							
My company is audited for smart contract security by an external entity.							
My company would lose customers in case of a security breach.							
Security breaches would hurt my company's reputation.							
Software security is a shared responsibility by all those involved in the development lifecycle.							
I see software security as my responsibility.							
I care about my users' experience in security and privacy.							
Customers would lose money in case of a security breach.							
The deployed smart contracts are immutable.							
It is challenging to detect and trace							

attacks on smart contracts deployed to blockchains.

19. Do you agree with each of the following statements? *

Mark only one oval per row.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree	I don't know.
The smart contracts I develop are not prone to security attacks.						
Smart contract security is not my responsibility.						
Smart contract security is a burden on top of my main responsibilities.						
In my team, it is more important to deliver features on time than to address smart contract security.						
My team does not have the budget to address smart contract security.						
My company does not have a formal process for smart contract security.						
It is unlikely that our smart contract will be attacked.						
It is easy to mitigate the negative impact of a security breach.						
Available security tools for smart contracts are not useful.						

Why do you or don't you think security is important to smart contracts? (Optional)										
nart Contract: S	Security P	ractices								
As a percenta	age, how r	nuch of y	our team's ov	erall eff	ort in the de	evelopment				
avala ralatas	to *securi	ty tasks*?	? (Please inpu	t a numb	oer betweer	n 0-100) *				
Cycle relates		•	•							
cycle relates										
cycle relates										
Cycle relates										
·		onsider se	ecurity amon	a the fol	lowing stag	es? *				
How does yo	ur team co		ecurity amon	g the fol	lowing stag	es? *				
·	ur team co		ecurity amon	g the fol	lowing stag	es? *				
How does yo	ur team co		ecurity amono	g the fol Very						
How does yo	ur team co	<u>′</u> .	·							
How does yo	ur team co	<u>′</u> .	·							
How does yo Mark only one o	ur team co	<u>′</u> .	·							
How does yo Mark only one of Requirement Design	ur team co	<u>′</u> .	·							
How does yo Mark only one of Requirement Design Construction	ur team co	<u>′</u> .	·							
How does yo Mark only one of Requirement Design Construction Testing	ur team co	<u>′</u> .	·							

Yes										
No										
I don't know.										
How frequently does your team use each of the following strategies to identify security problems in smart contracts? *										
Mark only one oval per ro	<i>v.</i> Very Rarely	Rarely	Sometimes	Often	Very Often	l don' know				
Threat assessment										
Code style checking										
Code review										
Static analysis (Use an automated tool)										
Formal verification										
Vulnerability scan (Use an automated scanner)										
Fuzzing										
Security testing (Within organization)										
External auditing										
Runtime monitoring										

How frequently does y						
Mark only one oval per ro				wing tec	hniques t	:o ensi
	Very Rarely	Rarely	Sometimes	Often	Very Often	I dor knov
Input validation						
Bytecode hardening						
Access control enforcement						
Avoid improper use of functions (e.g., DelegateCall())						
What other technique security? (Optional)	s (if any)	does you	ur team use to	o ensure	smart co	ntract

Smart Contract: Security Tools

	Very Rarely	Rarely	Sometimes	Often	Very Often	l do kno
Formal verification tool (e.g., Boogie)						
Fuzzer (e.g., ILF and Echidna)						
Reverse engineering tool						
Security plugin in IDE (e.g., Remix)						
Mythril						
Oyente						
SmartCheck						
Slither						
What other tools (if a (Optional)	any) does	your tear	n use to ensu	re smart	contract	secu

31. I would use a tool to ensure smart contract security because: *

Mark only one oval per row.

	Strong Disagree	Disagree	Neutral	Agree	Strongly Agree	l don't know.
The tool runs fast.						
The tool is extensible.						
The tool is easy to use.						
The tool is highly automated.						
The tool is actively maintained.						
The tool does not cost much money.						
The tool supports multiple languages.						
The tool produces low false positives.						
The tool produces low false negatives.						
The tool covers a wide range of security issues.						
The tool generates understandable reports.						

32.	Could you please brainstorm an ideal tool for ensuring smart contract security? It can be as fancy as whatever you can think of. (Optional)

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