First steps

 What is the highest type of object that can exist on the Ethereum blockchain? Mark only one oval.
Variable
Contract
Coin
Function
What is the most basic information every contract must have in order to be deployed? Mark only one oval.
Contract name
Contract owner
Constructor function
Public variable
Code related question #1 Look at code #1 and answer the following questions
Code #1:
contract newContract{ }
3. Can the contract newContract in code #1 be deployed to the Ethereum blockchain? Mark only one oval.
No - It does't contain any information
No - It doesn't contain any constractur function
Yes - It will deploy the contract to the blockchain, even though the contract doesn't says much.
It depends, It will only deploy the contract as long as there's still free space on the blockchain
4. Who is the owner of this contract
Mark only one oval.
Since no owner variable was specified, anyone can claim this contract as his or hers own
The one who deployed the contract is the owner
The last user to interact with the contract will be the owner
This contract doesn't have any owner

5. What will happen if we'll send Ethers to newContract address? Mark only one oval.
The Ethers will be refunded to the sender account
The Ethers will be transferred to the newContract owner
The Ethers will sit in the newContract account until the owner of that contract will claim them
The Ethers will sit in the newContract account for all eternity
6. Who can delete (suicide) the newCountract account? Mark only one oval.
Only the one who deployed the contract
Only the current owner of the contract
Anyone who knows the contract ABI
No one can delete, destroy or suicide this contract
Code related question #2 Look at code #2 and answer the following questions
code #2:
contract newBrand{
string public brand;
<pre>function newBrand(){ brand = "Diginomics"; } </pre>
7. The contract newBrand has a function that is also called newBrand(). What type of function is it?
Mark only one oval.
Constructor function
Exception function
Primitive function
Required function
8. What's so special about Constructor functions? Mark only one oval.
They will only be executed once, when the contract is first deployed.
They can only be executed by the owner of the contract
They cannot receive any arguments from the users
They will be called whenever someone tries to interact with the contract

9. In the contract newBrand in code #2 we've declared one variable "brand information this variable can hold, and who can read it?	J". What type of
Mark only one oval.	
It contains the name of the brand and can be read by the owner of the	e contract
It contains a string (any type of string) and can be read by anyone wh searching for) that brand name.	o already knows (or
It contains a string (any type of string) and can be read by anyone wh	o knows the address of
It contains a string (any type of string) and can be read by anyone.	
10. Assume we'll remove the attribute "public" from our string "brandName this variable?	". Now who can read
Mark only one oval.	
No one can read it	
Only the owner of the contract can read it	
No one can read it, but the owner can provide a function that will return	n this variable
Anyone who knows the address of the contract can read it	
11. Assume two different people will try to deploy the same contract (newC blockchain. What will happen? Mark only one oval.	ontract) onto the
There will be two different contract on the blockchain, with completely that will contain the public string "Diginomic"	independent addresses
The second contract will not be stored on the blockchain, only the first	t one
Both contract will be stored on the blockchain under the same addres	S
The second contract will replace the first contract	
Code related question #3 Look at code #3 and answer the following questions	
code #3:	
contract mortal{	
address public owner;	
function mortal(){	
owner = msg.sender; }	
modifier onlyOwner{ if (msg.sender == owner){	
}else{	
throw; }	
}	
function kill() onlyOwner{ suicide(owner);	

}

12. When deploying the contract "mortal", what address will be stored in the variable "owner"? Mark only one oval.
The address of the contract
The address of the last account that sent a message to the contract
The address of the owner is predefined by the creator of the contract
The address of the one who deployed the contract
13. Complete the following statement: The modifier onlyOwner uses the logical statement IF[] THAN[]
Mark only one oval.
IF[The sender of the message is equal to the owner] THAN[Proceed]
IF[The sender of the message has the same address as the contract] THAN[Proceed]
IF[The sender of the message has the same address as the contract] THAN[Throw]
IF[The contract has a defined owner] THAN[Proceed]
14. Which of the following statements is FALSE? Mark only one oval.
The "owner" variable can only store one address
The function "kill" can only be called by the owner of the contract
The function "mortal" can be called again to change the address stored in the "owner" variable
The contract "mortal" can have only one owner
15. Is it possible to use the same modifier for other functions? Mark only one oval.
No - Each modifier can be used only once
No - Each modifier has its own function. It cannot be attached to other functions
Yes - But since the result of the if-than statement will be the same for every function, It will run the if statements only once.
Yes - It will preform the same checking for each function call.
Code related question #4 Look at code #4 and answer the following questions
code #4:
contract mortal{
address public owner;
function mortal(){
owner = msg.sender; }

```
modifier onlyOwner{
         if (msg.sender == owner){
         }else{
              throw;
     }
     function kill() onlyOwner{
         suicide(owner);
     }
}
contract newBrand is mortal{
     string public brandName;
     function newBrand(string brandName){
         brandName = brandName;
     }
     function changeBrandName(string newBrandName) onlyOwner {
         brandName = newBrandName;
     }
}
 16. When deploying the contract "newBrand" the "mortal" contract is also deployed.
    Mark only one oval.
           True - The contract "newBrand" inherits from the contract "mortal". Therefor the "mortal"
    contract will also be deployed.
         ) True - The contract "newBrand" inherits from the contract "mortal". Therefor it needs to know
    the address of the contract "mortal"
           False - The contract "newBrand" is an independent contract and it doesn't depends on the
    contract "mortal"
           False - The contract "newBrand" inherits from the contract "mortal" and it will already
    contained all the variables and functions specified in the contract "mortal"
 17. Assume that the contract "mortal" was deployed by one account and the contract
    "newBrand" was deployed by another account. Who can access the function
    "changeBrandName"?
    Mark only one oval.
           The account which deployed the "newBrand" contract
           The account which deployed the "mortal" contract
           Both - The variable "owner" exists on both contract on contains both of the address
           Neither - The variable "owner" clashes so an error will be thrown
```

Mark only one oval.
Only one - Once a contract is deployed, it's already stored on the blockchain and cannot be deployed again
Only once per address - There cannot be more then one instances of the contract per owner.
Unlimited - The contract can be deployed again and again and again. Every time, the new contract will receive a new address
Unlimited - As long as the address from which the contract is deployed hasn't been used to deploy a previous instance of that contract
Assume that we remove the phrase "is mortal" from the "newBrand" contract, but still deploy the contract "newBrand" with the contract "mortal" still declared at the top of our code. What will happen? Mark only one oval.
The contract "newBrand" won't be deployed because the function "changeBrandName" needs to declare an owner
Everything will work just has before
The contract wont be deployed because every contract needs to have an owner address
Both contracts will be deployed simultaneously
Can the contract "mortal" be deployed without deploying the contract "newBrand" at the same time?
Mark only one oval.
No - It's specifically stated in our code that the contract "newBrand" IS "mortal"
No - If both contracts were declared, both will be deployed
Yes - Each contract can be deployed independently
Yes - But only the "mortal" contract can be deployed independently. The "newBrand" contract still requires us to first deploy the "mortal" contract
Let's also remove the function "changeBrandName" from the contract "newBrand". Now, what will happen if we try to deploy the contract "newBrand"? Mark only one oval.
It will deploy and wont contain the variable "owner"
It will deploy. The "owner" variable will still be declared, but we won't be able to interact with the contract
It won't deploy - We cannot deploy a contract without specifying an owner address
It won't deploy unless we'll first separately deploy the contract "moral"

22.	When using the function "changeBrandName" what's happening in the blockchain to the old "brandName"? Mark only one oval.
	All instances of the old "brandName" are replaced by the new "brandName". For both old and new blocks.
	From that point onward, all new instances of the variable "brandName" will contain the new brand name. Previous instances will remain the same
	All previous instances will be deleted. Only the new "brandName" will remain on the blockchain
	As data cannot be erased from the blockchain Both brand names will exist simultaneously on the blockchain, but on different addresses
Va	riables
23.	Choose the FALSE statement Mark only one oval.
	The variable type uint can only hold non negative numbers
	The variable type address can only hold valid Ethereum address
	The variable type int256 can only hold numbers between 0 and 256
	The variable type uint64 can only hold non negative numbers of up to 64 bytes long
24.	What is the basic denomination of 1 Ether? Mark only one oval.
	Wei. 1 Ether equal 1*10^18 Wei
	Satoshi. 1 Ether equal 1*10^9 Satoshis
	Cents 1 Ether equal 1*10^2 Cents
	Nano. 1 Ether equal 1*10^9 Nanos
25.	What type of variables can be stored at "address" type variable? Mark only one oval.
	Only accounts address
	Only valid accounts address
	Only contracts addresses
	Any Ethereum valid address
26.	The variable type "bool" is used to store what? Mark only one oval.
	Boolean values only (true or false)
	The integers 0 and 1 only
	The string "true" or the string "false"
	Any undefined variable

27. When defining an array such as string[] public name, what type of index will the array contain? Mark only one oval.
The array will be indexed by stings
The array is indexed by integers
The array can be indexed by both integers and strings
None of the above
28. In order to add the name "Bob" to our names array we can use: Check all that apply.
name[name.length++] = "Bob";
name.push("Bob");
name["Bob"];
name[name] = "Bob";
29. Can we store more then one "Bob" in our array? Mark only one oval.
No, There can only be one item of each type in the array
No, When we'll try to add the second "Bob", it will delete the previous "Bob" entry.
Yes, but we'll have to manually write the index number for the new "Bob" entry
Yes, each item in the array uses unique integer as its index.
30. Can we store a struct type variable inside an array? Mark only one oval.
Yes - But first we need to declare the struct object
Yes - But only if the struct object contains the type of variables that the array was declared to hold (int, uint, string, etc)
No - Struct objects might contain more than one variable type
No - There's a storage limit
31. True or False, When using mapping we can choose our own type of index Mark only one oval.
True - As long as we're using a unique index
True - As long as we're using address
False - Only integers can be used as indexed
False - Only address can be used as index when using mapping

32. What happens when we try to insert data to an already existing array cell? Mark only one oval.
The previous data is saved under new index
The previous data is replaced
We won't be able to make the change
The new data will be saved under new index
33. Can we have a multilevel mapping? (mapping within mapping)? Mark only one oval.
Yes and we can use which ever index we want for the inner mapping
No each mapping needs to have its own unique index
Only if we're using address as our index since it's known that each address is uinque
Yes, as long as we're using different indexes for each mapping
Proxy contracts contract child{
uint256 public childAge = 1; string childName;
<pre>function setChildName(string _name){ childName = _name; }</pre>
}
contract parent{
address public yourChildAddress; uint256 public childAge; string childName;
<pre>function parent(address _addressOfTheChildContract){ yourChildAddress = _addressOfTheChildContract; child myChild = child(yourChildAddress); childAge = myChild.childAge(); }</pre>
<pre>function nameYourChild(string _myChildName){ child myChild = child(yourChildAddress); myChild.setChildName(_myChildName);</pre>
<pre>} }</pre>

	or false - The relationship between the Child contract and the Parent contract is of itance.
Mark	only one oval.
contr	True - The Parent contract inherent the childName and childAge variables from the Child act
contr	True - The Child contract inherent the childName and childAge variables from the Parent act
	False - Only contracts that contains the keyword "is" will have inheritance relations
) False - Only contracts with fixed size variable can inherent from other contracts
	d the Parent contract be deployed without first deploying the Child contract?
contr	No - The constructor function in the Parent contract requires the address of a valid Child act.
	Yes - There's no inheritance relationship between the two contracts.
	Yes - In fact, The Parent contract needs to be deployed before the Child contract
	Both contracts depends on each other, therefor they need to be deployed simultaneously
	the current Ethereum virtual machine read variables from other contracts?
	No - Contract can only access variables stored under its own address
	No - All variables must be declared in advance
	Yes - It can read every type of variable
	Yes - As long as the ABI of the contract is known and the variable size is pre determind
conti	Parent contract can change the variable "childName" that was declared on the Child ract. Still, it cannot read it. Why? only one oval.
	Sting variables have different sizes. The current EVM cannot read variables of unfixed size
	The Child contract was deployed before the Parent contract, therefor the Parent contract
canno	of access its variables
	The variable childName isn't a public variable, therefor it cannot be accessed
	The variable childName can only be declared once
	can access the function setChildName? only one oval.
	Any user who knows the ABI of the Child contract
	Only the corresponding Parent contract
	Only the owner of the Child contract
	Only the owner of the Parent contract

39.	Who can access the function "nameYourChild"? Mark only one oval.
	Any user who knows the ABI of the Child contract
	Only the owner of the Parent contract
	Only the owner of the Child contract
	Any user who knows the ABI of the Parent contract
40.	How many Child contract can our Parent contract interact with Mark only one oval.
	Limitless amount
	Only 2
	It can interact with as many Child contracts as it wants as long as we change the childAddress variable
	It can only interact with 1 Child contract. The one we've inserted its address when first deploying the Parent contract
41.	What will happen if we removed the "public" attribute from the variable "childAge"? Mark only one oval.
	The Parent contract won't be allowed to read this variable
	The "childAge" variable will not be visible to other users
	The Parent contract will not deploy
	All of the above
42.	Changing the variable "childAge" from uint256 to uint8 can be done in 3 different ways. In only 2 ways the contracts will continue to work. Choose the 2 right options Check all that apply.
	Change the size for both contracts
	Change the size to uint8 only for the Child contract and leave it as uint256 for the Parent contract
	Change the size to uint8 only for the Parent contract and leave it as uint256 for the Child contract
	The contracts cannot be deployed after the variable size was change
Ge	eneral questions
43.	When can a function call an event? Mark only one oval.
	At any giving time
	Only once it competed its execution
	When new block is mined
	Functions can't call an event, only users can

Mark o	event was emitted, who can watch it? nly one oval.
	Anyone who's watching the contract
	Each event have a list or recipients
	Anyone who's address is part of the event message
	Only the own called the event
	nany events can be called?
	nly one oval.
	•
	nly one oval. There's no limitation (except for gas price limitations)
	There's no limitation (except for gas price limitations) Only one event per function execution

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