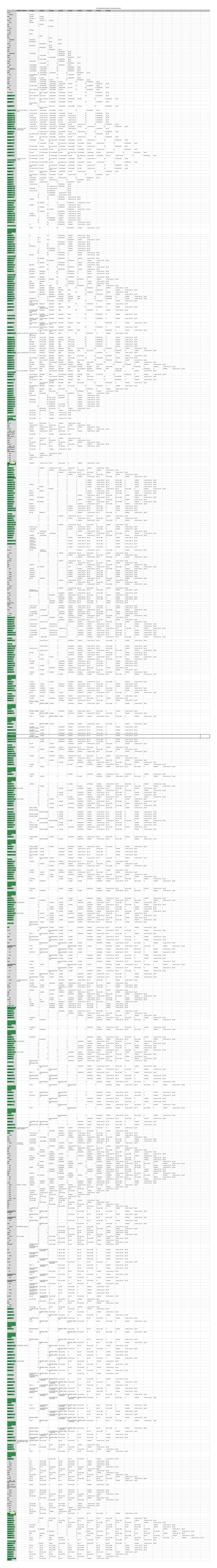
GnisisSafePersonalEdition::constructor

		STACK[0]	STACK[1]			
Constructor						
mstore(0x40, 0x80)	[0x40]=0x80					
callvalue		msg.value				
dup1		msg.value	msg.value			
iszero		msg.value==0	msg.value			
tag_1		tag_1	msg.value==0	msg.value		
jumpi		msg.value				
0x0		0	msg.value			
dup1		0	0	msg.value		
revert						
tag_1:		msg.value				
pop						
dataSize(sub_0)		Size of code				
dup1		Size of code	Size of code			
dataOffset(sub_0)		Offset of code	Size of code	Size of code		
0x0		0	Offset of code	Size of code	Size of code	
codecopy	[0:size of code] = code	Size of code				
0x0		0	Size of code			
return						
stop						

GrooveStatePersonalEdition.setup (optimized)

	STACK[0]	STACK[1]	STACK[2]	STACK[3]	STACK[4]	STACK[5]	STACK[6]	STACK[7]	STACK[8]	STACK[9]	STACK[10]	STACK[11]
tag_9i												
callvalue	Call value											
dup1	Call value	Call value										
iszero	Call value == 0	Call value										
tag_3k	Call value == 0	Call value == 0	Call value									
jumpi	Call value											
0x0	0	Call value										
dup1	0	0	Call value									
revert												
tag_3b	Call value											
pop												
0x40	64											
dup1	64	64										
mload	memory_free_ptr	64										
0x20	32	memory_free_ptr	64									
add	4	32	memory_free_ptr	64								
dup1	4	4	32	memory_free_ptr	64							
calldataload	0	4	32	memory_free_ptr	64							
dup1	0	0	4	32	memory_free_ptr	64						
shl	224	0	4	32	memory_free_ptr	64						
dup2	4	224	0	4	32	memory_free_ptr	64					
add	36	224	0	4	32	memory_free_ptr	64					
calldataload	0	36	224	0	4	32	memory_free_ptr	64				
dup2	224	0	36	224	0	4	32	memory_free_ptr	64			
shr	0	224	0	36	224	0	4	32	memory_free_ptr	64		
mod	0	0	224	0	36	224	0	4	32	memory_free_ptr	64	
dup1	0	0	0	224	0	36	224	0	4	32	memory_free_ptr	64
dup7	64	0	0	0	224	0	36	224	0	4	32	memory_free_ptr
add	96	0	0	0	224	0	36	224	0	4	32	memory_free_ptr
dup8	32	96	0	0	0	224	0	36	224	0	4	32
add	32	32	96	0	0	0	224	0	36	224	0	4
swap1	32	32	32	96	0	0	0	224	0	36	224	0
swap7	64	32	32	32	96	0	0	0	224	0	36	224
mstore	32	32	32	96	0	0	0	224	0	36	224	0
dup1	32	32	32	32	96	0	0	0	224	0	36	224
dup1	32	32	32	32	32	96	0	0	0	224	0	36
dup7	224	32	32	32	32	32	96	0	0	0	224	0
dup8	36	224	32	32	32	32	32	96	0	0	0	224
add	36	36	224	32	32	32	32	32	96	0	0	0
calldataload	0	36	36	224	32	32	32	32	32	96	0	0
dup2	224	0	36	36	224	32	32	32	32	32	96	0
shr	0	224	0	36	36	224	32	32	32	32	32	96
mod	0	0	224	0	36	36	224	32	32	32	32	32
dup1	0	0	0	224	0	36	36	224	32	32	32	32
dup7	64	0	0	0	224	0	36	36	224	32	32	32
add	96	0	0	0	224	0	36	36	224	32	32	32
dup8	32	96	0	0	0	224	0	36	36	224	32	32
add	32	32	96	0	0	0	224	0	36	36	224	32
swap1	32	32	32	96	0	0	0	224	0	36	36	224
swap7	224	32	32	32	96	0	0	0	224	0	36	36
mstore	32	32	32	96	0	0	0	224	0	36	36	224
dup1	32	32	32	32	96	0	0	0	224	0	36	36
dup1	32	32	32	32	32	96	0	0	0	224	0	36
dup7	224	32	32	32	32	32	96	0	0	0	224	0
dup8	36	224	32	32	32	32	32	96	0	0	0	224
add	36	36	224	32	32	32	32	32	96	0	0	0
swap2	224	36	36	32	32	32	32	32	32	96	0	0
swap1	36	224	36	32	32	32	32	32	32	96	0	0
swap2	36	36	224	32	32	32	32	32	32	96	0	0
mstore	36	36	224	32	32	32	32	32	32	96	0	0
dup1	36	36	36	224	32	32	32	32	32	32	96	0
dup1	36	36	36	36	224	32	32	32	32	32	32	96
dup7	224	36	36	36	36	224	32	32	32	32	32	32
dup8	36	224	36	36	36	36	224	32	32	32	32	32
add	36	36	224	36	36	36	36	224	32	32	32	32
swap2	224	36	36	36	36	36	36	224	32	32	32	32
swap1	36	224	36	36	36	36	36	224	32	32	32	32
swap2	36	36	224	36	36	36	36	224	32	32	32	32
pop	36	36	224	36	36	36	36	224	32	32	32	32
0x60	96	36	224	36	36	36	36	224	32	32	32	32
dup1	96	96	36	224	36	36	36	36	224	32	32	32
swap2	36	96	96	224	36	36	36	36	224	32	32	32
add	132	96	224	36	36	36	36	36	224	32	32	32
swap2	224	96	132	36	36	36	36	36	224	32	32	32
pop	96	132	224	36	36	36	36	36	224	32	32	32
swap1	132	96	224	36	36	36	36	36	224	32	32	32
pop	96	224	132	36	36	36	36	36	224	32	32	32
swap1	224	96	132	36	36	36	36	36	224	32	32	32
swap3	132	96	224	36	36	36	36	36	224	32	32	32
pop	224	96	132	36	36	36	36	36	224	32	32	32
swap1	96	224	132	36	36	36	36	36	224	32	32	32
swap3	132	224	96	36	36	36	36	36	224	32	32	32
pop	224	132	96	36	36	36	36	36	224	32	32	32
swap1	132	224	96	36	36	36	36	36	224	32	32	32
swap3	96	224	132





SecuredTokenTransfer::transferToken

		STACK[0]	STACK[1]	STACK[2]	STACK[3]	STACK[4]	STACK[5]	STACK[6]	STACK[7]	STACK[8]	STACK[9]				
tag_114		tag_114													
dup8		gasToken	tag_114												
origin		tx.origin	gasToken	tag_114											
dup4		amount	tx.origin	gasToken	tag_114										
tag_115		tag_115	amount	tx.origin	gasToken	tag_114									
jump // in		amount	tx.origin	gasToken	tag_114										
tag_115:		amount	tx.origin	gasToken	tag_114										
0x0		0	amount	tx.origin	gasToken	tag_114									
0x60		96	0	amount	tx.origin	gasToken	tag_114								
dup4		tx.origin	96	0	amount	tx.origin	gasToken	tag_114							
dup4		amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114						
add(0x24, mload(0x40))		free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114					
dup1		free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114				
dup4		tx.origin	free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114			
0xffffffffffffffffffffffffffffffffffffffff		2^160-1	tx.origin	free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114		
and		tx.origin	free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114			
0xffffffffffffffffffffffffffffffffffffffff		2^160-1	tx.origin	free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114		
and		tx.origin	free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114			
dup2		free_mem_ptr+36	tx.origin	free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114		
mstore	[free_mem_ptr+36] =tx.origin	free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114				
0x20		32	free_mem_ptr+36	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114			
add		free_mem_ptr+68	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114				
dup3		amount	free_mem_ptr+68	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114			
dup2		free_mem_ptr+68	amount	free_mem_ptr+68	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114		
mstore	[free_mem_ptr+68] =amount	free_mem_ptr+68	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114				
0x20		32	free_mem_ptr+68	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114			
add		free_mem_ptr+100	free_mem_ptr+36	amount	tx.origin	96	0	amount	tx.origin	gasToken	tag_114				
swap3		tx.origin	free_mem_ptr+36	amount	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114				
pop		free_mem_ptr+36	amount	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114					
pop		amount	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114						
pop		free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114							
mload(0x40)		free_mem_ptr	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114						
0x20		32	free_mem_ptr	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114					
dup2		free_mem_ptr	32	free_mem_ptr	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114				
dup4		free_mem_ptr+100	free_mem_ptr	32	free_mem_ptr	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114			
sub		100	32	free_mem_ptr	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114				
sub		68	free_mem_ptr	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114					
dup2		free_mem_ptr	68	free_mem_ptr	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114				
mstore	[free_mem_ptr]=68	free_mem_ptr+100	96	0	amount	tx.origin	gasToken	tag_114							
swap1		free_mem_ptr+100	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114						
0x40		64	free_mem_ptr+100	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114					
mstore	[64]=free_mem_ptr +100	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114							
and(not(0xffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffffff), 0xa9059cbb0000000000000000000000000000000000000000000000000000000000000000)		signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114						
0x20		32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114					
dup3		free_mem_ptr	32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114				
add		free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114					
dup1		free_mem_ptr+32	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114				
mload		tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114				
0xffffffffffffffffffffffffffffffffffffffff		2^224-1	tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114			
dup4		signature of "transfer" as high 4 bytes	2^224-1	tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114		
dup2		2^224-1	signature of "transfer" as high 4 bytes	2^224-1	tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114	
dup4		tx.origin as low 28 bytes	2^224-1	signature of "transfer" as high 4 bytes	2^224-1	tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114
and		tx.origin as low 28 bytes	signature of "transfer" as high 4 bytes	2^224-1	tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114	
or		signature of "transfer" as high 4 bytes | tx.origin as low 28 bytes	2^224-1	tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114		
dup4		free_mem_ptr+32	signature of "transfer" as high 4 bytes | tx.origin as low 28 bytes	2^224-1	tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114	
mstore	[free_mem_ptr+32] =signature of "transfer" as high 4 bytes	2^224-1	tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114			
pop		tx.origin as low 28 bytes	free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114				
pop		free_mem_ptr+32	signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114					
pop		signature of "transfer" as high 4 bytes	free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114						
pop		free_mem_ptr	96	0	amount	tx.origin	gasToken	tag_114							
swap1		96	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114							
pop		free_mem_ptr	0	amount	tx.origin	gasToken	tag_114								
0x0		0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114							
dup1		0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114						
dup3		free_mem_ptr	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
mload		68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
0x20		32	68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
dup5		free_mem_ptr	32	68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
add		free_mem_ptr+32	68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
0x0		0	free_mem_ptr+32	68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
dup10		gasToken	0	free_mem_ptr+32	68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114		
0x2710		10000	gasToken	0	free_mem_ptr+32	68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114	
gas		Gas left	10000	gasToken	0	free_mem_ptr+32	68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114
sub		Gas left - 10000	gasToken	0	free_mem_ptr+32	68	0	0	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114	
call		Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114							
0x40		64	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114						
mload		free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114						
returndatasize		Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
0x0		0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
dup3		free_mem_ptr	0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
returndatacopy	[free_mem_ptr]=ret urn data	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114						
returndatasize		Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
0x0		0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
dup2		Return data size	0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
eq		Return data size==0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
tag_228		tag_228	Return data size==0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
jumpi		Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
0x20		32	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
dup2		Return data size	32	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
eq		Return data size==32	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
tag_229		tag_229	Return data size==32	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
jumpi		Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
0x0		0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
swap5		0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
pop		Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
jump(tag_227)															
tag_228:		Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
dup3		Success	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
swap5		0	Return data size	free_mem_ptr	Success	free_mem_ptr	Success	amount	tx.origin	gasToken	tag_114				
pop		Return data size	free_mem_ptr	Success	free_mem_ptr	Success	amount	tx.origin	gasToken	tag_114					
jump(tag_227)		Return data size	free_mem_ptr	Success	free_mem_ptr	Success	amount	tx.origin	gasToken	tag_114					
tag_229:		Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
dup2		free_mem_ptr	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
mload		transfer result	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
iszero		transfer result == 0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
dup4		Success	transfer result == 0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
iszero		Success == 0	transfer result == 0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114			
or		Success == 0 || transfer result == 0	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
iszero		!(success == 0 || tranfer result == 0)	Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114				
swap5		0	Return data size	free_mem_ptr	Success	free_mem_ptr	!(success == 0 || tranfer result == 0)	amount	tx.origin	gasToken	tag_114				
pop		Return data size	free_mem_ptr	Success	free_mem_ptr	!(success == 0 || tranfer result == 0)	amount	tx.origin	gasToken	tag_114					
tag_227:		Return data size	free_mem_ptr	Success	free_mem_ptr	Success	amount	tx.origin	gasToken	tag_114					
tag_227: (SECOND BRANCH)		Return data size	free_mem_ptr	Success	free_mem_ptr	!(success == 0 || tranfer result == 0)	amount	tx.origin	gasToken	tag_114					
tag_227 (THIRD BRANCH)		Return data size	free_mem_ptr	Success	free_mem_ptr	0	amount	tx.origin	gasToken	tag_114					
pop															
pop															
pop															
pop															
swap4		transferred	amount	tx.origin	gasToken	tag_114									
swap3		gasToken	amount	tx.origin	transferred	tag_114									
pop															
pop															
pop		transferred	tag_114												
jump // out		transferred	tag_114												