```
PROGRAM:
 "contractName": "Migrations",
 "abi": [
  {
   "constant": true,
   "inputs": [],
   "name": "last_completed_migration",
   "outputs": [
    {
     "name": "",
     "type": "uint256"
   ],
   "payable": false,
   "stateMutability": "view",
   "type": "function"
  },
   "constant": true,
   "inputs": [],
   "name": "owner",
   "outputs": [
```

```
"name": "",
   "type": "address"
  }
 ],
 "payable": false,
 "stateMutability": "view",
 "type": "function"
},
 "inputs": [],
 "payable": false,
 "stateMutability": "nonpayable",
 "type": "constructor"
},
 "constant": false,
 "inputs": [
  {
   "name": "completed",
   "type": "uint256"
  }
 ],
 "name": "setCompleted",
 "outputs": [],
```

```
"payable": false,
  "stateMutability": "nonpayable",
  "type": "function"
 },
  "constant": false,
  "inputs": [
    "name": "new_address",
    "type": "address"
   }
  1,
  "name": "upgrade",
  "outputs": [],
  "payable": false,
  "stateMutability": "nonpayable",
  "type": "function"
 }
1,
"bytecode":
```

ffffffffff169060200190929190505050610175565b005b3480156100c457600080f d5b506100cd61025d565b6040518082815260200191505060405180910390f35b3 #########f1673#############################168152602001915050604051809103 90f35b34801561014657600080fd5b506101736004803603602081101561015d57 600080fd5b8101908080359060200190929190505050610288565b005b60008090 02001915050600060405180830381600087803b15801561024057600080fd5b505 af1158015610254573d6000803e3d6000fd5b50505050505b50565b60015481565 a165627a7a7230582093e5c0dbc2c999e37b4c1068da45c0da4f22130961b265599 640347b5dba708f0029",

## "deployedBytecode":

```
"sourceMap": "25:480:1:-;;;177:50;8:9:-
1;5:2;;;30:1;27;20:12;5:2;177:50:1;212:10;204:5;;:18;;;;;;;;;;;;;;25:480;;;;;",
 "deployedSourceMap": "25:480:1:-;;;;;;;;;;;;;;;;;;;;;;;;;;;;;338:165;;8:9:-
1;5:2;;;30:1;27;20:12;5:2;338:165:1;;;;;13:2:-
1;8:3;5:11;2:2;;;29:1;26;19:12;2:2;338:165:1;;;;;;;;73:36;;8:9:-
1;5:2;;;30:1;27;20:12;5:2;73:36:1;;;;;;;;;49:20;;8:9:-
1;5:2;;;30:1;27;20:12;5:2;231:103:1;;;;;13:2:-
1;8:3;5:11;2:2;;;29:1;26;19:12;2:2;231:103:1;;;;;;;;;;338:165;160:5;;;;;;;;14
6:19;;:10;:19;;;142:26;;;400:19;433:11;400:45;;451:8;:21;;;473:24;;451:47;;;;;;;;;
;;;;;;;;8:9:-1;5:2;;;30:1;27;20:12;5:2;451:47:1;;;;8:9:-
1;5:2;;;45:16;42:1;39;24:38;77:16;74:1;67:27;5:2;451:47:1;;;;167:1;142:26;338:16
5;:::0;73:36::-;;;;:::0;49:20::-;;;;;;;::0;231:103::-
;160:5;;;;;;;146:19;;:10;:19;;;142:26;;;320:9;293:24;:36;;;;142:26;231:103;:::o",
 "source": "pragma solidity ^0.5.0;\n\ncontract Migrations {\n address public
owner;\n uint public last completed migration;\n\n modifier restricted() {\n if
(msg.sender == owner) ;\n }\n\n constructor() public {\n owner =
msg.sender;\n \\n\n function setCompleted(uint completed) public restricted {\n
last completed migration = completed;\n \\n\n function upgrade(address
new address) public restricted {\n Migrations upgraded =
Migrations(new address);\n
upgraded.setCompleted(last completed migration);\n \\n\\n",
 "sourcePath": "/home/kapoor13/Desktop/lasttry/contracts/Migrations.sol",
 "ast": {
  "absolutePath": "/home/kapoor13/Desktop/lasttry/contracts/Migrations.sol",
  "exportedSymbols": {
```

```
"Migrations": [
  154
 1
},
"id": 155,
"nodeType": "SourceUnit",
"nodes": [
 {
  "id": 99,
  "literals": [
   "solidity",
   "^",
   "0.5",
   ".0"
  ],
  "nodeType": "PragmaDirective",
  "src": "0:23:1"
 },
  "baseContracts": [],
  "contractDependencies": [],
  "contractKind": "contract",
  "documentation": null,
  "fullyImplemented": true,
```

```
"id": 154,
"linearizedBaseContracts": [
 154
],
"name": "Migrations",
"nodeType": "ContractDefinition",
"nodes": [
  "constant": false,
  "id": 101,
  "name": "owner",
  "nodeType": "VariableDeclaration",
  "scope": 154,
  "src": "49:20:1",
  "stateVariable": true,
  "storageLocation": "default",
  "typeDescriptions": {
   "typeIdentifier": "t_address",
   "typeString": "address"
  },
  "typeName": {
   "id": 100,
   "name": "address",
   "nodeType": "ElementaryTypeName",
```

```
"src": "49:7:1",
  "stateMutability": "nonpayable",
  "typeDescriptions": {
   "typeIdentifier": "t_address",
   "typeString": "address"
  }
 },
 "value": null,
 "visibility": "public"
},
 "constant": false,
 "id": 103,
 "name": "last_completed_migration",
 "nodeType": "VariableDeclaration",
 "scope": 154,
 "src": "73:36:1",
 "stateVariable": true,
 "storageLocation": "default",
 "typeDescriptions": {
  "typeIdentifier": "t_uint256",
  "typeString": "uint256"
 },
 "typeName": {
```

```
"id": 102,
  "name": "uint",
  "nodeType": "ElementaryTypeName",
  "src": "73:4:1",
  "typeDescriptions": {
   "typeIdentifier": "t_uint256",
   "typeString": "uint256"
  }
 },
 "value": null,
 "visibility": "public"
},
 "body": {
  "id": 111,
  "nodeType": "Block",
  "src": "136:37:1",
  "statements": [
   {
    "condition": {
     "argumentTypes": null,
     "commonType": {
      "typeIdentifier": "t_address",
      "typeString": "address"
```

```
},
"id": 108,
"isConstant": false,
"isLValue": false,
"isPure": false,
"IValueRequested": false,
"leftExpression": {
 "argumentTypes": null,
 "expression": {
  "argumentTypes": null,
  "id": 105,
  "name": "msg",
  "nodeType": "Identifier",
  "overloadedDeclarations": [],
  "referencedDeclaration": 169,
  "src": "146:3:1",
  "typeDescriptions": {
   "typeIdentifier": "t_magic_message",
   "typeString": "msg"
 },
 "id": 106,
 "isConstant": false,
 "isLValue": false,
```

```
"isPure": false,
 "IValueRequested": false,
 "memberName": "sender",
 "nodeType": "MemberAccess",
 "referencedDeclaration": null,
 "src": "146:10:1",
 "typeDescriptions": {
  "typeIdentifier": "t_address_payable",
  "typeString": "address payable"
 }
},
"nodeType": "BinaryOperation",
"operator": "==",
"rightExpression": {
 "argumentTypes": null,
 "id": 107,
 "name": "owner",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 101,
 "src": "160:5:1",
 "typeDescriptions": {
  "typeIdentifier": "t_address",
  "typeString": "address"
```

```
}
    },
    "src": "146:19:1",
    "typeDescriptions": {
     "typeIdentifier": "t_bool",
     "typeString": "bool"
    }
   },
   "falseBody": null,
   "id": 110,
   "nodeType": "IfStatement",
   "src": "142:26:1",
   "trueBody": {
    "id": 109,
    "nodeType": "PlaceholderStatement",
    "src": "167:1:1"
"documentation": null,
"id": 112,
"name": "restricted",
"nodeType": "ModifierDefinition",
```

},

```
"parameters": {
  "id": 104,
  "nodeType": "ParameterList",
  "parameters": [],
  "src": "133:2:1"
},
 "src": "114:59:1",
 "visibility": "internal"
},
 "body": {
  "id": 120,
  "nodeType": "Block",
  "src": "198:29:1",
  "statements": [
    "expression": {
     "argumentTypes": null,
     "id": 118,
     "isConstant": false,
     "isLValue": false,
     "isPure": false,
     "IValueRequested": false,
     "leftHandSide": {
```

```
"argumentTypes": null,
 "id": 115,
 "name": "owner",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 101,
 "src": "204:5:1",
 "typeDescriptions": {
  "typeIdentifier": "t_address",
  "typeString": "address"
 }
},
"nodeType": "Assignment",
"operator": "=",
"rightHandSide": {
 "argumentTypes": null,
 "expression": {
  "argumentTypes": null,
  "id": 116,
  "name": "msg",
  "nodeType": "Identifier",
  "overloadedDeclarations": [],
  "referencedDeclaration": 169,
  "src": "212:3:1",
```

```
"typeDescriptions": {
   "typeIdentifier": "t_magic_message",
   "typeString": "msg"
 },
 "id": 117,
 "isConstant": false,
 "isLValue": false,
 "isPure": false,
 "IValueRequested": false,
 "memberName": "sender",
 "nodeType": "MemberAccess",
 "referencedDeclaration": null,
 "src": "212:10:1",
 "typeDescriptions": {
  "typeIdentifier": "t_address_payable",
  "typeString": "address payable"
 }
},
"src": "204:18:1",
"typeDescriptions": {
 "typeIdentifier": "t_address",
 "typeString": "address"
}
```

```
},
   "id": 119,
   "nodeType": "ExpressionStatement",
   "src": "204:18:1"
},
"documentation": null,
"id": 121,
"implemented": true,
"kind": "constructor",
"modifiers": [],
"name": "",
"nodeType": "FunctionDefinition",
"parameters": {
 "id": 113,
 "nodeType": "ParameterList",
 "parameters": [],
 "src": "188:2:1"
},
"returnParameters": {
 "id": 114,
 "nodeType": "ParameterList",
 "parameters": [],
```

```
"src": "198:0:1"
 },
 "scope": 154,
 "src": "177:50:1",
 "stateMutability": "nonpayable",
 "superFunction": null,
 "visibility": "public"
},
 "body": {
  "id": 132,
  "nodeType": "Block",
  "src": "287:47:1",
  "statements": [
   {
    "expression": {
     "argumentTypes": null,
     "id": 130,
     "isConstant": false,
     "isLValue": false,
     "isPure": false,
     "IValueRequested": false,
     "leftHandSide": {
      "argumentTypes": null,
```

```
"id": 128,
 "name": "last_completed_migration",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 103,
 "src": "293:24:1",
 "typeDescriptions": {
  "typeIdentifier": "t_uint256",
  "typeString": "uint256"
 }
},
"nodeType": "Assignment",
"operator": "=",
"rightHandSide": {
 "argumentTypes": null,
 "id": 129,
 "name": "completed",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 123,
 "src": "320:9:1",
 "typeDescriptions": {
  "typeIdentifier": "t_uint256",
  "typeString": "uint256"
```

```
}
    },
    "src": "293:36:1",
    "typeDescriptions": {
     "typeIdentifier": "t_uint256",
     "typeString": "uint256"
    }
   },
   "id": 131,
   "nodeType": "ExpressionStatement",
   "src": "293:36:1"
},
"documentation": null,
"id": 133,
"implemented": true,
"kind": "function",
"modifiers": [
  "arguments": null,
  "id": 126,
  "modifierName": {
   "argumentTypes": null,
```

```
"id": 125,
   "name": "restricted",
   "nodeType": "Identifier",
   "overloadedDeclarations": [],
   "referencedDeclaration": 112,
   "src": "276:10:1",
   "typeDescriptions": {
    "typeIdentifier": "t_modifier$__$",
    "typeString": "modifier ()"
  },
  "nodeType": "ModifierInvocation",
  "src": "276:10:1"
],
"name": "setCompleted",
"nodeType": "FunctionDefinition",
"parameters": {
 "id": 124,
 "nodeType": "ParameterList",
 "parameters": [
  {
   "constant": false,
   "id": 123,
```

```
"name": "completed",
 "nodeType": "VariableDeclaration",
 "scope": 133,
 "src": "253:14:1",
 "stateVariable": false,
 "storageLocation": "default",
 "typeDescriptions": {
  "typeIdentifier": "t_uint256",
  "typeString": "uint256"
 },
 "typeName": {
  "id": 122,
  "name": "uint",
  "nodeType": "ElementaryTypeName",
  "src": "253:4:1",
  "typeDescriptions": {
   "typeIdentifier": "t_uint256",
   "typeString": "uint256"
  }
 },
 "value": null,
 "visibility": "internal"
}
```

],

```
"src": "252:16:1"
 },
 "returnParameters": {
  "id": 127,
  "nodeType": "ParameterList",
  "parameters": [],
  "src": "287:0:1"
 },
 "scope": 154,
 "src": "231:103:1",
 "stateMutability": "nonpayable",
 "superFunction": null,
 "visibility": "public"
},
 "body": {
  "id": 152,
  "nodeType": "Block",
  "src": "394:109:1",
  "statements": [
    "assignments": [
     141
    ],
```

```
"declarations": [
  "constant": false,
  "id": 141,
  "name": "upgraded",
  "nodeType": "VariableDeclaration",
  "scope": 152,
  "src": "400:19:1",
  "stateVariable": false,
  "storageLocation": "default",
  "typeDescriptions": {
   "typeIdentifier": "t_contract$_Migrations_$154",
   "typeString": "contract Migrations"
  },
  "typeName": {
   "contractScope": null,
   "id": 140,
   "name": "Migrations",
   "nodeType": "UserDefinedTypeName",
   "referencedDeclaration": 154,
   "src": "400:10:1",
   "typeDescriptions": {
    "typeIdentifier": "t_contract$_Migrations_$154",
    "typeString": "contract Migrations"
```

```
}
  },
  "value": null,
  "visibility": "internal"
"id": 145,
"initialValue": {
 "argumentTypes": null,
 "arguments": [
   "argumentTypes": null,
   "id": 143,
   "name": "new_address",
   "nodeType": "Identifier",
   "overloadedDeclarations": [],
   "referencedDeclaration": 135,
   "src": "433:11:1",
   "typeDescriptions": {
    "typeIdentifier": "t_address",
    "typeString": "address"
 ],
```

```
"expression": {
 "argumentTypes": [
  {
   "typeIdentifier": "t_address",
   "typeString": "address"
  }
 ],
 "id": 142,
 "name": "Migrations",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 154,
 "src": "422:10:1",
 "typeDescriptions": {
  "typeIdentifier": "t_type$_t_contract$_Migrations_$154_$",
  "typeString": "type(contract Migrations)"
 }
},
"id": 144,
"isConstant": false,
"isLValue": false,
"isPure": false,
"kind": "typeConversion",
"IValueRequested": false,
```

```
"names": [],
  "nodeType": "FunctionCall",
  "src": "422:23:1",
  "typeDescriptions": {
   "typeIdentifier": "t_contract$_Migrations_$154",
   "typeString": "contract Migrations"
  }
 },
 "nodeType": "VariableDeclarationStatement",
 "src": "400:45:1"
},
 "expression": {
  "argumentTypes": null,
  "arguments": [
    "argumentTypes": null,
    "id": 149,
    "name": "last_completed_migration",
    "nodeType": "Identifier",
    "overloadedDeclarations": [],
    "referencedDeclaration": 103,
    "src": "473:24:1",
    "typeDescriptions": {
```

```
"typeIdentifier": "t_uint256",
   "typeString": "uint256"
"expression": {
 "argumentTypes": [
   "typeIdentifier": "t_uint256",
   "typeString": "uint256"
 }
 ],
 "expression": {
  "argumentTypes": null,
  "id": 146,
  "name": "upgraded",
  "nodeType": "Identifier",
  "overloadedDeclarations": [],
  "referencedDeclaration": 141,
  "src": "451:8:1",
  "typeDescriptions": {
   "typeIdentifier": "t_contract$_Migrations_$154",
   "typeString": "contract Migrations"
```

```
},
            "id": 148,
            "isConstant": false,
            "isLValue": false,
            "isPure": false,
            "IValueRequested": false,
            "memberName": "setCompleted",
            "nodeType": "MemberAccess",
            "referencedDeclaration": 133,
            "src": "451:21:1",
            "typeDescriptions": {
             "typeIdentifier":
"t_function_external_nonpayable$_t_uint256_$returns$__$",
             "typeString": "function (uint256) external"
            }
           },
           "id": 150,
           "isConstant": false,
           "isLValue": false,
           "isPure": false,
           "kind": "functionCall",
           "IValueRequested": false,
           "names": [],
           "nodeType": "FunctionCall",
           "src": "451:47:1",
```

```
"typeDescriptions": {
     "typeIdentifier": "t_tuple$__$",
     "typeString": "tuple()"
   },
   "id": 151,
   "nodeType": "ExpressionStatement",
   "src": "451:47:1"
},
"documentation": null,
"id": 153,
"implemented": true,
"kind": "function",
"modifiers": [
  "arguments": null,
  "id": 138,
  "modifierName": {
   "argumentTypes": null,
   "id": 137,
   "name": "restricted",
   "nodeType": "Identifier",
```

```
"overloadedDeclarations": [],
   "referencedDeclaration": 112,
   "src": "383:10:1",
   "typeDescriptions": {
    "typeIdentifier": "t_modifier$__$",
    "typeString": "modifier ()"
   }
  },
  "nodeType": "ModifierInvocation",
  "src": "383:10:1"
 }
],
"name": "upgrade",
"nodeType": "FunctionDefinition",
"parameters": {
 "id": 136,
 "nodeType": "ParameterList",
 "parameters": [
   "constant": false,
   "id": 135,
   "name": "new_address",
   "nodeType": "VariableDeclaration",
   "scope": 153,
```

```
"src": "355:19:1",
  "stateVariable": false,
  "storageLocation": "default",
  "typeDescriptions": {
   "typeIdentifier": "t_address",
   "typeString": "address"
  },
  "typeName": {
   "id": 134,
   "name": "address",
   "nodeType": "ElementaryTypeName",
   "src": "355:7:1",
   "stateMutability": "nonpayable",
   "typeDescriptions": {
    "typeIdentifier": "t_address",
    "typeString": "address"
  "value": null,
  "visibility": "internal"
 }
"src": "354:21:1"
```

],

},

```
"returnParameters": {
      "id": 139,
      "nodeType": "ParameterList",
      "parameters": [],
      "src": "394:0:1"
     },
     "scope": 154,
     "src": "338:165:1",
     "stateMutability": "nonpayable",
     "superFunction": null,
     "visibility": "public"
   ],
   "scope": 155,
   "src": "25:480:1"
 ],
 "src": "0:506:1"
},
"legacyAST": {
 "absolutePath": "/home/kapoor13/Desktop/lasttry/contracts/Migrations.sol",
 "exportedSymbols": {
  "Migrations": [
   154
```

```
]
},
"id": 155,
"nodeType": "SourceUnit",
"nodes": [
 {
  "id": 99,
  "literals": [
   "solidity",
   "^",
   "0.5",
   ".0"
  ],
  "nodeType": "PragmaDirective",
  "src": "0:23:1"
 },
  "baseContracts": [],
  "contractDependencies": [],
  "contractKind": "contract",
  "documentation": null,
  "fullyImplemented": true,
  "id": 154,
  "linearizedBaseContracts": [
```

```
154
],
"name": "Migrations",
"nodeType": "ContractDefinition",
"nodes": [
  "constant": false,
  "id": 101,
  "name": "owner",
  "nodeType": "VariableDeclaration",
  "scope": 154,
  "src": "49:20:1",
  "stateVariable": true,
  "storageLocation": "default",
  "typeDescriptions": {
   "typeIdentifier": "t_address",
   "typeString": "address"
  },
  "typeName": {
   "id": 100,
   "name": "address",
   "nodeType": "ElementaryTypeName",
   "src": "49:7:1",
   "stateMutability": "nonpayable",
```

```
"typeDescriptions": {
   "typeIdentifier": "t_address",
   "typeString": "address"
  }
 },
 "value": null,
 "visibility": "public"
},
 "constant": false,
 "id": 103,
 "name": "last_completed_migration",
 "nodeType": "VariableDeclaration",
 "scope": 154,
 "src": "73:36:1",
 "stateVariable": true,
 "storageLocation": "default",
 "typeDescriptions": {
  "typeIdentifier": "t_uint256",
  "typeString": "uint256"
 },
 "typeName": {
  "id": 102,
  "name": "uint",
```

```
"nodeType": "ElementaryTypeName",
  "src": "73:4:1",
  "typeDescriptions": {
   "typeIdentifier": "t_uint256",
   "typeString": "uint256"
  }
 },
 "value": null,
 "visibility": "public"
},
 "body": {
  "id": 111,
  "nodeType": "Block",
  "src": "136:37:1",
  "statements": [
    "condition": {
     "argumentTypes": null,
     "commonType": {
      "typeIdentifier": "t_address",
      "typeString": "address"
     },
     "id": 108,
```

```
"isConstant": false,
"isLValue": false,
"isPure": false,
"IValueRequested": false,
"leftExpression": {
 "argumentTypes": null,
 "expression": {
  "argumentTypes": null,
  "id": 105,
  "name": "msg",
  "nodeType": "Identifier",
  "overloadedDeclarations": [],
  "referencedDeclaration": 169,
  "src": "146:3:1",
  "typeDescriptions": {
   "typeIdentifier": "t_magic_message",
   "typeString": "msg"
  }
 },
 "id": 106,
 "isConstant": false,
 "isLValue": false,
 "isPure": false,
 "IValueRequested": false,
```

```
"memberName": "sender",
 "nodeType": "MemberAccess",
 "referencedDeclaration": null,
 "src": "146:10:1",
 "typeDescriptions": {
  "typeIdentifier": "t_address_payable",
  "typeString": "address payable"
},
"nodeType": "BinaryOperation",
"operator": "==",
"rightExpression": {
 "argumentTypes": null,
 "id": 107,
 "name": "owner",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 101,
 "src": "160:5:1",
 "typeDescriptions": {
  "typeIdentifier": "t_address",
  "typeString": "address"
 }
},
```

```
"src": "146:19:1",
    "typeDescriptions": {
     "typeIdentifier": "t_bool",
     "typeString": "bool"
   },
   "falseBody": null,
   "id": 110,
   "nodeType": "IfStatement",
   "src": "142:26:1",
   "trueBody": {
    "id": 109,
    "nodeType": "PlaceholderStatement",
    "src": "167:1:1"
"documentation": null,
"id": 112,
"name": "restricted",
"nodeType": "ModifierDefinition",
"parameters": {
 "id": 104,
```

},

```
"nodeType": "ParameterList",
  "parameters": [],
  "src": "133:2:1"
 },
 "src": "114:59:1",
 "visibility": "internal"
},
 "body": {
  "id": 120,
  "nodeType": "Block",
  "src": "198:29:1",
  "statements": [
   {
    "expression": {
      "argumentTypes": null,
      "id": 118,
      "isConstant": false,
      "isLValue": false,
      "isPure": false,
      "IValueRequested": false,
      "leftHandSide": {
       "argumentTypes": null,
       "id": 115,
```

```
"name": "owner",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 101,
 "src": "204:5:1",
 "typeDescriptions": {
  "typeIdentifier": "t_address",
  "typeString": "address"
},
"nodeType": "Assignment",
"operator": "=",
"rightHandSide": {
 "argumentTypes": null,
 "expression": {
  "argumentTypes": null,
  "id": 116,
  "name": "msg",
  "nodeType": "Identifier",
  "overloadedDeclarations": [],
  "referencedDeclaration": 169,
  "src": "212:3:1",
  "typeDescriptions": {
   "typeIdentifier": "t_magic_message",
```

```
"typeString": "msg"
  },
  "id": 117,
  "isConstant": false,
  "isLValue": false,
  "isPure": false,
  "IValueRequested": false,
  "memberName": "sender",
  "nodeType": "MemberAccess",
  "referencedDeclaration": null,
  "src": "212:10:1",
  "typeDescriptions": {
   "typeIdentifier": "t_address_payable",
   "typeString": "address payable"
 "src": "204:18:1",
 "typeDescriptions": {
  "typeIdentifier": "t_address",
  "typeString": "address"
 }
},
"id": 119,
```

```
"nodeType": "ExpressionStatement",
   "src": "204:18:1"
  }
"documentation": null,
"id": 121,
"implemented": true,
"kind": "constructor",
"modifiers": [],
"name": "",
"nodeType": "FunctionDefinition",
"parameters": {
 "id": 113,
 "nodeType": "ParameterList",
 "parameters": [],
 "src": "188:2:1"
},
"returnParameters": {
 "id": 114,
 "nodeType": "ParameterList",
 "parameters": [],
 "src": "198:0:1"
},
```

```
"scope": 154,
 "src": "177:50:1",
 "stateMutability": "nonpayable",
 "superFunction": null,
 "visibility": "public"
},
 "body": {
  "id": 132,
  "nodeType": "Block",
  "src": "287:47:1",
  "statements": [
    "expression": {
     "argumentTypes": null,
     "id": 130,
     "isConstant": false,
     "isLValue": false,
     "isPure": false,
     "IValueRequested": false,
     "leftHandSide": {
       "argumentTypes": null,
       "id": 128,
       "name": "last_completed_migration",
```

```
"nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 103,
 "src": "293:24:1",
 "typeDescriptions": {
  "typeIdentifier": "t_uint256",
  "typeString": "uint256"
},
"nodeType": "Assignment",
"operator": "=",
"rightHandSide": {
 "argumentTypes": null,
 "id": 129,
 "name": "completed",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 123,
 "src": "320:9:1",
 "typeDescriptions": {
  "typeIdentifier": "t_uint256",
  "typeString": "uint256"
 }
},
```

```
"src": "293:36:1",
    "typeDescriptions": {
     "typeIdentifier": "t_uint256",
     "typeString": "uint256"
   },
   "id": 131,
   "nodeType": "ExpressionStatement",
   "src": "293:36:1"
},
"documentation": null,
"id": 133,
"implemented": true,
"kind": "function",
"modifiers": [
{
  "arguments": null,
  "id": 126,
  "modifierName": {
   "argumentTypes": null,
   "id": 125,
   "name": "restricted",
```

```
"nodeType": "Identifier",
   "overloadedDeclarations": [],
   "referencedDeclaration": 112,
   "src": "276:10:1",
   "typeDescriptions": {
    "typeIdentifier": "t_modifier$__$",
    "typeString": "modifier ()"
  },
  "nodeType": "ModifierInvocation",
  "src": "276:10:1"
"name": "setCompleted",
"nodeType": "FunctionDefinition",
"parameters": {
 "id": 124,
 "nodeType": "ParameterList",
 "parameters": [
   "constant": false,
   "id": 123,
   "name": "completed",
   "nodeType": "VariableDeclaration",
```

```
"scope": 133,
  "src": "253:14:1",
  "stateVariable": false,
  "storageLocation": "default",
  "typeDescriptions": {
   "typeIdentifier": "t_uint256",
   "typeString": "uint256"
  },
  "typeName": {
   "id": 122,
   "name": "uint",
   "nodeType": "ElementaryTypeName",
   "src": "253:4:1",
   "typeDescriptions": {
    "typeIdentifier": "t_uint256",
    "typeString": "uint256"
  "value": null,
  "visibility": "internal"
 }
],
"src": "252:16:1"
```

},

```
"returnParameters": {
  "id": 127,
  "nodeType": "ParameterList",
  "parameters": [],
  "src": "287:0:1"
},
 "scope": 154,
 "src": "231:103:1",
 "stateMutability": "nonpayable",
 "superFunction": null,
 "visibility": "public"
},
 "body": {
  "id": 152,
  "nodeType": "Block",
  "src": "394:109:1",
  "statements": [
   {
    "assignments": [
     141
    ],
    "declarations": [
```

```
"constant": false,
"id": 141,
"name": "upgraded",
"nodeType": "VariableDeclaration",
"scope": 152,
"src": "400:19:1",
"stateVariable": false,
"storageLocation": "default",
"typeDescriptions": {
 "typeIdentifier": "t contract$ Migrations $154",
 "typeString": "contract Migrations"
},
"typeName": {
 "contractScope": null,
 "id": 140,
 "name": "Migrations",
 "nodeType": "UserDefinedTypeName",
 "referencedDeclaration": 154,
 "src": "400:10:1",
 "typeDescriptions": {
  "typeIdentifier": "t contract$ Migrations $154",
  "typeString": "contract Migrations"
 }
},
```

```
"value": null,
  "visibility": "internal"
 }
"id": 145,
"initialValue": {
 "argumentTypes": null,
 "arguments": [
   "argumentTypes": null,
   "id": 143,
   "name": "new_address",
   "nodeType": "Identifier",
   "overloadedDeclarations": [],
   "referencedDeclaration": 135,
   "src": "433:11:1",
   "typeDescriptions": {
    "typeIdentifier": "t_address",
    "typeString": "address"
 "expression": {
  "argumentTypes": [
```

```
"typeIdentifier": "t_address",
   "typeString": "address"
 ],
 "id": 142,
 "name": "Migrations",
 "nodeType": "Identifier",
 "overloadedDeclarations": [],
 "referencedDeclaration": 154,
 "src": "422:10:1",
 "typeDescriptions": {
  "typeIdentifier": "t_type$_t_contract$_Migrations_$154_$",
  "typeString": "type(contract Migrations)"
 }
},
"id": 144,
"isConstant": false,
"isLValue": false,
"isPure": false,
"kind": "typeConversion",
"IValueRequested": false,
"names": [],
"nodeType": "FunctionCall",
```

```
"src": "422:23:1",
  "typeDescriptions": {
   "typeIdentifier": "t_contract$_Migrations_$154",
   "typeString": "contract Migrations"
 },
 "nodeType": "VariableDeclarationStatement",
 "src": "400:45:1"
},
 "expression": {
  "argumentTypes": null,
  "arguments": [
   {
    "argumentTypes": null,
    "id": 149,
    "name": "last_completed_migration",
    "nodeType": "Identifier",
    "overloadedDeclarations": [],
    "referencedDeclaration": 103,
    "src": "473:24:1",
    "typeDescriptions": {
     "typeIdentifier": "t_uint256",
     "typeString": "uint256"
```

```
}
"expression": {
 "argumentTypes": [
  {
   "typeIdentifier": "t_uint256",
   "typeString": "uint256"
],
 "expression": {
  "argumentTypes": null,
  "id": 146,
  "name": "upgraded",
  "nodeType": "Identifier",
  "overloadedDeclarations": [],
  "referencedDeclaration": 141,
  "src": "451:8:1",
  "typeDescriptions": {
   "typeIdentifier": "t_contract$_Migrations_$154",
   "typeString": "contract Migrations"
  }
 },
 "id": 148,
```

```
"isConstant": false,
            "isLValue": false,
            "isPure": false,
            "IValueRequested": false,
            "memberName": "setCompleted",
            "nodeType": "MemberAccess",
            "referencedDeclaration": 133,
            "src": "451:21:1",
            "typeDescriptions": {
             "typeIdentifier":
"t_function_external_nonpayable$_t_uint256_$returns$__$",
             "typeString": "function (uint256) external"
           },
           "id": 150,
           "isConstant": false,
           "isLValue": false,
           "isPure": false,
           "kind": "functionCall",
           "IValueRequested": false,
           "names": [],
           "nodeType": "FunctionCall",
           "src": "451:47:1",
           "typeDescriptions": {
            "typeIdentifier": "t_tuple$__$",
```

```
"typeString": "tuple()"
    }
   },
   "id": 151,
   "nodeType": "ExpressionStatement",
   "src": "451:47:1"
  }
},
"documentation": null,
"id": 153,
"implemented": true,
"kind": "function",
"modifiers": [
 {
  "arguments": null,
  "id": 138,
  "modifierName": {
   "argumentTypes": null,
   "id": 137,
   "name": "restricted",
   "nodeType": "Identifier",
   "overloadedDeclarations": [],
   "referencedDeclaration": 112,
```

```
"src": "383:10:1",
   "typeDescriptions": {
    "typeIdentifier": "t_modifier$__$",
    "typeString": "modifier ()"
  },
  "nodeType": "ModifierInvocation",
  "src": "383:10:1"
],
"name": "upgrade",
"nodeType": "FunctionDefinition",
"parameters": {
 "id": 136,
 "nodeType": "ParameterList",
 "parameters": [
   "constant": false,
   "id": 135,
   "name": "new_address",
   "nodeType": "VariableDeclaration",
   "scope": 153,
   "src": "355:19:1",
   "stateVariable": false,
```

```
"storageLocation": "default",
   "typeDescriptions": {
    "typeIdentifier": "t_address",
    "typeString": "address"
   },
   "typeName": {
    "id": 134,
    "name": "address",
    "nodeType": "ElementaryTypeName",
    "src": "355:7:1",
    "stateMutability": "nonpayable",
    "typeDescriptions": {
     "typeIdentifier": "t_address",
     "typeString": "address"
    }
   },
   "value": null,
   "visibility": "internal"
  }
],
 "src": "354:21:1"
"returnParameters": {
 "id": 139,
```

},

```
"nodeType": "ParameterList",
      "parameters": [],
      "src": "394:0:1"
     },
     "scope": 154,
     "src": "338:165:1",
     "stateMutability": "nonpayable",
     "superFunction": null,
     "visibility": "public"
    }
   ],
   "scope": 155,
   "src": "25:480:1"
  }
 ],
 "src": "0:506:1"
},
"compiler": {
 "name": "solc",
 "version": "0.5.0+commit.1d4f565a.Emscripten.clang"
},
"networks": {
 "1369": {
  "events": {},
```

```
"links": {},
    "address": "0xaADbDb0Dc8af4cCb26C06D5bcd24e0a3267cCdCc",
    "transactionHash":
"0x8f5d68e99b949492e2f7fe7df4e4a8652e5af7eaad187492c183623730498dcb"
    }
},
"schemaVersion": "3.0.12",
"updatedAt": "2019-08-21T19:13:08.337Z"
}
```