PredicateHelper

A helper contract for executing boolean functions on arbitrary target call results

Functions

or

```
function or(
    uint256 offsets,
    bytes calldata data
) public view returns(bool)
```

Calls every target with corresponding data

Parameters:

Name	Type	Description
offsets	uint256	
data	bytes	

Return values

Type	Description
bool	True if call to any target returned True. Otherwise, false

and

```
function and(
    uint256 offsets,
    bytes calldata data
) public view returns(bool)
```

Checks if a given flag is set for the provided address

Parameters:

Name	Type	Description
offsets	uint256	
data	bytes	

Return values

Type	Description
bool	True if calls to all targets returned True. Otherwise, false

not

```
function not(
    bytes calldata data
) public view returns(bool)
```

Calls target with specified data and tests if it's equal to 0

Parameters:

Name	Type	Description
data	bytes	

Return values

Type	Description
bool	True if call to target returns 0. Otherwise, false

eq

```
function eq(
    uint256 value,
    bytes calldata data
) public view returns(bool)
```

Calls target with specified data and tests if it's equal to the value

Parameters:

Name	Type	Description
value	uint256	Value to test
data	bytes	

Return values

Type	Description
bool	True if call to target returns the same value as value. Otherwise, false

lt

```solidity
function lt(
    uint256 value,
    bytes calldata data
) public view returns(bool)
```

Calls target with specified data and tests if it's lower than value

Parameters:

Name	Type	Description
value	uint256	Value to test
data	bytes	

Return values

Type	Description
bool	True if call to target returns value which is lower than value. Otherwise, false

gt

```solidity
function gt(
    uint256 value,
    bytes calldata data
) public view returns(bool)
```

Calls target with specified data and tests if it's bigger than value

Parameters:

Name	Type	Description
`value`	uint256	Value to test
`data`	bytes	

Return values

Type	Description
bool	True if call to target returns value which is bigger than `value`. Otherwise, false

arbitraryStaticCall

```
function arbitraryStaticCall(
    address target,
    bytes calldata data
) public view returns(uint256)
```

Performs an arbitrary call to target with data

Parameters:

Name	Type	Description
`target`	address	Value to test
`data`	bytes	

Return values

Type	Description
uint256	Bytes transmuted to uint256

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