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## createStrategy()

Only standard ERC20 tokens are supported (rebase, fee-on-transfer etc are not supported) ```

```
CarbonController.sol Copy functioncreateStrategy( Tokentoken0, Tokentoken1, Order[2]calldataorders
)externalpayablenonReentrantwhenNotPausedonlyProxyDelegatereturns(uint256)
```

```

This function is used to create a strategy on Carbon DeFi. Each strategy must include two linked orders.

### Function Arguments

Name Type Description token0 Token The first token in the strategy. Order0 will be referring to selling this token for token1. (The Carbon DeFi UI will use this as "[Base](#)" token) token1 Token The second token in the strategy. Order1 will be referring to selling this token for token0. (The Carbon DeFi UI will use this as "[Quote](#)" token) orders array This is an array of two Order objects. Each order contains the following:y: uint128 The amount of tokens deposited into the order.z: uint128 The y intercept of the order, which is used to calculate the marginal price.A: uint64 Price range (width) parameter, encoded.B: uint64 Price range (edge) parameter, encoded.

### Example

```

```
Copy createStrategy( 0xEeeeeEeeeEeEeeEeEeEeEeEEEEeEeE, //token0 ETH
0xA0b86991c6218b36c1d19D4a2e9Eb0cE3606eB48, //token1 USDC [{y,z,A,B}, // order0, selling token0 (ETH) for token1
(USDC) {y,z,A,B}], // order1, selling token1 (USDC) for token0 (ETH) )
```

// In the Carbon DeFi UI, this will appear with rates in units of ETH per USDC.

```

### Returns

This function returns the assigned id of the strategy.

### Important notes

- While all required data is available on chain, it is recommended to use the [Carbon DeFi SDK](#)
- .
- Due to input value normalization and memory restrictions, the order parameters stored on chain might be slightly different than those input via the UI and/or the SDK.

### Example

```

Copy //user inputs

```
{ 'liquidity' : 759250124, 'lowestRate' : 309485009821345068724781056.00000000000000000000, 'highestRate' :
309485009821345068724781056.00000000000014551915228, 'marginalRate' :
309485009821345068724781056.0000000000000000000019 }
```

//encoded order

```
{ 'y': 759250124, 'z': 759250124, 'A': 0, 'B': 12807111440334848 }
```

//decoded order

```
{ 'liquidity' : 759250124, 'lowestRate' : 309485009821345068724781056, 'highestRate' : 309485009821345068724781056,
'marginalRate' : 309485009821345068724781056 }
```

...

To create a strategy with the ETH token, use the contract address:0xEeeeeEeeeEeEeeEeEeEEeeeeEeeeeeeeEEeE  
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