# tradeBySourceAmount()

The function parameters must include the list of orders (tradeActions) to interact with.

Using the SDK is highly recommended. See [Performing Trades](#) for details.

FunctiontradeBySourceAmount()

This function will trade the exact amount of indicatedsource tokens for as manytarget tokens as possible.

```
```

CarbonController.sol Copy functiontradeBySourceAmount( TokensourceToken, TokentargetToken, TradeAction[]calldatatradeActions, uint256deadline, uint128minReturn )externalpayablenonReentrantwhenNotPausedreturns(uint128)

```
```

Function Arguments

Name Type Description sourceToken Token address The source token address targetToken Token address The target token address tradeActions list This is a list of TradeAction objects, each of which contain thestrategyId andamount of source tokens to trade into the strategy deadline uint256 Unix timestamp after which the transaction will revert minReturn uint128 The minimum amount of target tokens that must be received for the transaction to not revert tradeActionamount needs to follow the relevant token decimal. tradeBySourceAmount, follows the sourceToken decimals

Example

```
```

Copy tradeBySourceAmount( 0xC02aaA39b223FE8D0A0e5C4F27eAD9083C756Cc2,//source token 0x1F573D6Fb3F13d689FF844B4cE37794d79a7FF1C,//target token [{59,1600000000000000000}, {72,3140000000000000000}],//array of tradeActions [{strategyId, amount},{strategyId, amount}...] 1675680190,//deadline 5320000000000000000//minReturn )

```
```

While all required data is available on chain, it is recommended to use the [Carbon DeFi SDK](#) . To trade directly with the ETH token, use the contract address:0xEeeeeEeeeEeEeeEeEeEeeEEEeeeeEeeeeeeeEEeE