Coding challenge :: Function :: I

Write a function to calculate the balance of a list of transactions based on the category and date range like so:

```
/**
 * @param {array} transactions - The transactions list.
 * @param {string} category - The name of the category
 * @param {date} start - The start date of the date range. Inclusive.
 * @param {date} end - The end date of the date range. Exclusive.
 * @returns {number} - The balance number
 */
function getBalanceByCategoryInPeriod (
  transactions = [],
  category,
  start,
  end
) { }
```

Input

Remember, a transaction has a shape like this:

```
{
  id: 3,
  sourceAccount: 'saving_account',
  targetAccount: 'starbucks',
  amount: -10,
  category: 'eating_out',
  time: '2018-03-02T10:34:30.000Z'
}
```

Output

The correct balance of applicable transactions. If there's no applicable transactions, return `0`.

Example

Input transactions:

```javascript
const sampleTransactions = [
  {
    id: 123,
    sourceAccount: 'my_account',
    targetAccount: 'supermarket',
    amount: -14,
    category: 'groceries',
    time: '2018-03-04'
  },
  {
    id: 125,
    sourceAccount: 'my_account',
    targetAccount: 'coffee_shop',
    amount: -30,
    category: 'eating_out',
    time: '2018-03-12'
  },
  {
    id: 124,
    sourceAccount: 'my_account',
    targetAccount: 'supermarket',
    amount: -3,
    category: 'groceries',
    time: '2018-03-15'
  },
  {
    id: 126,
    sourceAccount: 'my_account',
    targetAccount: 'cinema',
    amount: -12,
    category: 'movies',
```

```
    time: '2018-05-15'
  },
]
```

Expected Output :

```
getBalanceByCategoryInPeriod(
  sampleTransactions,
  "groceries",
  new Date("2018-03-01"),
  new Date("2018-03-31")
);
// -18
```