

# Problem 2777: Date Range Generator

## Problem Information

**Difficulty:** Medium

**Acceptance Rate:** 83.38%

**Paid Only:** Yes

## Problem Description

Given a start date `start`, an end date `end`, and a positive integer `step`, return a generator object that yields dates in the range from `start` to `end` inclusive.

The value of `step` indicates the number of days between consecutive yielded values.

All yielded dates must be in the string format `YYYY-MM-DD`.

**Example 1:**

```
**Input:** start = "2023-04-01", end = "2023-04-04", step = 1 **Output:**
["2023-04-01", "2023-04-02", "2023-04-03", "2023-04-04"] **Explanation:** const g =
dateRangeGenerator(start, end, step); g.next().value // '2023-04-01' g.next().value //
'2023-04-02' g.next().value // '2023-04-03' g.next().value // '2023-04-04'
```

**Example 2:**

```
**Input:** start = "2023-04-10", end = "2023-04-20", step = 3 **Output:**
["2023-04-10", "2023-04-13", "2023-04-16", "2023-04-19"] **Explanation:** const g =
dateRangeGenerator(start, end, step); g.next().value // '2023-04-10' g.next().value //
'2023-04-13' g.next().value // '2023-04-16' g.next().value // '2023-04-19'
```

**Example 3:**

```
**Input:** start = "2023-04-10", end = "2023-04-10", step = 1 **Output:** ["2023-04-10"]
**Explanation:** const g = dateRangeGenerator(start, end, step); g.next().value //
'2023-04-10'
```

**\*\*Constraints:\*\***

\* `new Date(start) <= new Date(end)` \* `start` and `end` dates are in the string format  
`YYYY-MM-DD` \* `0 <= The difference in days between the start date and the end date <= 1500` \* `1 <= step <= 1000`

## Code Snippets

### JavaScript:

```
/**
 * @param {string} start
 * @param {string} end
 * @param {number} step
 * @yields {string}
 */
var dateRangeGenerator = function* (start, end, step) {

};

/**
 * const g = dateRangeGenerator('2023-04-01', '2023-04-04', 1);
 * g.next().value; // '2023-04-01'
 * g.next().value; // '2023-04-02'
 * g.next().value; // '2023-04-03'
 * g.next().value; // '2023-04-04'
 * g.next().done; // true
 */
```

### TypeScript:

```
function* dateRangeGenerator(start: string, end: string, step: number) :
Generator<string> {

};

/**
 * const g = dateRangeGenerator('2023-04-01', '2023-04-04', 1);
 * g.next().value; // '2023-04-01'
 * g.next().value; // '2023-04-02'
 * g.next().value; // '2023-04-03'
 */
```

```
* g.next().value; // '2023-04-04'  
* g.next().done; // true  
*/
```