

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  
*/
```