

## 2797. Partial Function with Placeholders Premium

Easy

Given a function `fn` and an array `args`, return a function `partialFn`.

Placeholders `"_"` in the `args` should be replaced with values from `restArgs` starting from index `0`. Any remaining values in the `restArgs` should be added at the end of the `args`.

`partialFn` should return a result of `fn`. `fn` should be called with the elements of the modified `args` passed as separate arguments.

### Example 1:

**Input:** `fn = (...args) => args, args = [2,4,6], restArgs = [8,10]`

**Output:** `[2,4,6,8,10]`

**Explanation:**

```
const partialFn = partial(fn, args)
const result = partialFn(...restArgs)
console.log(result) // [2,4,6,8,10]
```

There are no placeholders `"_"` in `args` therefore `restArgs` is just added at the end of `args`. Then the elements of the `args` are passed as separate arguments to `fn`, which returns passed arguments as an array.

### Example 2:

**Input:** `fn = (...args) => args, args = [1,2,"_",4,"_",6], restArgs = [3,5]`

**Output:** `[1,2,3,4,5,6]`

**Explanation:**

```
const partialFn = partial(fn, args)
const result = partialFn(...restArgs)
console.log(result) // [1,2,3,4,5,6]
```

Placeholders `"_"` are replaced with values from the `restArgs`. Then the elements of the `args` are passed as separate arguments to `fn`, which returns passed arguments as an array.

### Example 3:

**Input:** `fn = (a, b, c) => b + a - c, args = ["_", 5], restArgs = [5, 20]`

**Output:** `-10`

**Explanation:**

```
const partialFn = partial(fn, args)
const result = partialFn(...restArgs)
console.log(result) // -10
```

Placeholder `"_"` is replaced with `5` and `20` is added at the end of `args`. Then the elements of the `args` are passed as separate arguments to `fn`, which returns `-10` (`5 + 5 - 20`).

### Constraints:

- `fn` is a function
- `args` and `restArgs` are valid JSON arrays
- `1 <= args.length <= 5 * 104`
- `1 <= restArgs.length <= 5 * 104`
- `0 <= number of placeholders <= restArgs.length`

Seen this question in a real interview before? 1/5

Yes No

Accepted **1.1K** | Submissions **1.2K** | Acceptance Rate **90.0%**

 Discussion (1)

