# 1432. Max Difference You Can Get From Changing an Integer

Submissions (/contest/biweekly-contest-25/problems/max-difference-you-can-get-from-changing-an-integer/submissions/)

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You are given an integer `num`. You will apply the following steps exactly **two** times:

- Pick a digit `x (0 <= x <= 9)`.
- Pick another digit `y (0 <= y <= 9)`. The digit `y` can be equal to `x`.
- Replace all the occurrences of `x` in the decimal representation of `num` by `y`.
- The new integer **cannot** have any leading zeros, also the new integer **cannot** be 0.

Let `a` and `b` be the results of applying the operations to `num` the first and second times, respectively.

Return *the max difference* between `a` and `b`.

| | |
|---|---|
| **User Accepted:** | 3219 |
| **User Tried:** | 3752 |
| **Total Accepted:** | 3277 |
| **Total Submissions:** | 8633 |
| **Difficulty:** | Medium |

**Example 1:**

```
Input: num = 555
Output: 888
Explanation: The first time pick x = 5 and y = 9 and store the new integer in a.
The second time pick x = 5 and y = 1 and store the new integer in b.
We have now a = 999 and b = 111 and max difference = 888
```

**Example 2:**

```
Input: num = 9
Output: 8
Explanation: The first time pick x = 9 and y = 9 and store the new integer in a.
The second time pick x = 9 and y = 1 and store the new integer in b.
We have now a = 9 and b = 1 and max difference = 8
```

**Example 3:**

```
Input: num = 123456
Output: 820000
```

**Example 4:**

```
Input: num = 10000
Output: 80000
```

**Example 5:**

```
Input: num = 9288
Output: 8700
```

**Constraints:**

- `1 <= num <= 10^8`

Discuss (https://leetcode.com/problems/max-difference-you-can-get-from-changing-an-integer/discuss)

JavaScript

```
/**
 * @param {number} num
 * @return {number}
 */
var maxDiff = function(num) {

};
```

**Custom Testcase** Use Example Testcases

Run Submit