800. Similar RGB Color

Description

The red-green-blue color "#AABBCC" can be written as "#ABC" in shorthand.

• For example, "#15c" is shorthand for the color "#1155cc".

The similarity between the two colors "#ABCDEF" and "#UVWXYZ" is -(AB - UV) 2 - (CD - WX) 2 - (EF - YZ) 2.

Given a string color that follows the format "#ABCDEF", return a string represents the color that is most similar to the given color and has a shorthand (i.e., it can be represented as some "#XYZ").

Any answer which has the same highest similarity as the best answer will be accepted.

Example 1:

```
Input: color = "#09f166"
Output: "#11ee66"
Explanation:
The similarity is -(0x09 - 0x11)^2 - (0xf1 - 0xee)^2 - (0x66 - 0x66)^2 = -64 - 9 - 0 = -73.
This is the highest among any shorthand color.
```

Example 2:

```
Input: color = "#4e3fe1"
Output: "#5544dd"
```

Constraints:

- color.length == 7
- color[0] == '#'
- color[i] is either digit or character in the range ['a', 'f'] for i > 0.