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535. Encode and Decode TinyURL

Medium

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Note: This is a companion problem to the System Design problem: Design TinyURL.

TinyURL is a URL shortening service where you enter a URL such as `https://leetcode.com/problems/design-tinyurl` and it returns a short URL such as `http://tinyurl.com/4e9iAk`. Design a class to encode a URL and decode a tiny URL.

There is no restriction on how your encode/decode algorithm should work. You just need to ensure that a URL can be encoded to a tiny URL and the tiny URL can be decoded to the original URL.

Implement the `Solution` class:

• `Solution()` Initializes the object of the system.

• `String encode(String longUrl)` Returns a tiny URL for the given `longUrl`.

• `String decode(String shortUrl)` Returns the original long URL for the given `shortUrl`. It is guaranteed that the given `shortUrl` was encoded by the same object.

Example 1:

Input: `url = "https://leetcode.com/problems/design-tinyurl"`

Output: `"https://leetcode.com/problems/design-tinyurl"`

Explanation:

`Solution obj = new Solution();`
`string tiny = obj.encode(url); // returns the encoded tiny url.`
`string ans = obj.decode(tiny); // returns the original url after decoding it.`

Constraints:

• `1 <= url.length <= 104`

• `url` is guaranteed to be a valid URL.

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```
public class Codec {  
    // Encodes a URL to a shortened URL.  
    public String encode(String longUrl) {  
    }  
    // Decodes a shortened URL to its original URL.  
    public String decode(String shortUrl) {  
    }  
}  
  
// Your Codec object will be instantiated and called as such:  
// Codec codec = new Codec();  
// codec.decode(codec.encode(url));
```

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Console

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https://leetcode.com/problems/encode-and-decode-tinyurl/

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