




271. Encode and Decode Strings Premium

Solved 

Medium

 Topics

 Companies

Design an algorithm to encode a **list of strings** to a **string**. The encoded string is then sent over the network and is decoded back to the original list of strings.

Machine 1 (sender) has the function:

```
string encode(vector<string> strs) {  
    // ... your code  
    return encoded_string;  
}
```

Machine 2 (receiver) has the function:

```
vector<string> decode(string s) {  
    //... your code  
    return strs;  
}
```

So Machine 1 does:

```
string encoded_string = encode(strs);
```

and Machine 2 does:

```
vector<string> strs2 = decode(encoded_string);
```

`strs2` in Machine 2 should be the same as `strs` in Machine 1.

Implement the `encode` and `decode` methods.

You are not allowed to solve the problem using any serialize methods (such as `eval`).

Example 1:

Input: dummy_input = ["Hello","World"]

Output: ["Hello","World"]

Explanation:

Machine 1:

```
Codec encoder = new Codec();
```

```
String msg = encoder.encode(strs);
```

Machine 1 $\xrightarrow{\text{msg}}$ Machine 2

Machine 2:

```
Codec decoder = new Codec();
```

```
String[] strs = decoder.decode(msg);
```

Example 2:

Input: dummy_input = [""]

Output: [""]

Constraints:

- `1 <= strs.length <= 200`
- `0 <= strs[i].length <= 200`
- `strs[i]` contains any possible characters out of `256` valid ASCII characters.


Follow up: Could you write a generalized algorithm to work on any possible set of characters?

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

Yes

No


Accepted **224.9K** | Submissions **468.4K** | Acceptance Rate **48.0%**

 Topics

Array

String

Design

 Companies

0 - 3 months

Google **2**

Microsoft **2**


0 - 6 months

Meta **2**

Amazon **2**

6 months ago

Snowflake **5**

 Similar Questions

Count and Say

Medium

Serialize and Deserialize Binary Tree


Hard

String Compression

Medium

Count Binary Substrings

Easy

 Discussion (16)