Problem 2 [10 points]

You are a software developer for a sales company. Today you must write a program that takes sales leads from a lead source, and adds them to a pool where they can be serviced by salespeople.

You will use the following classes, which have already been written. You don't need to see the code inside them, just know how to use them!

LeadSource

Represents a connection to a digital source of sales leads.

Methods

`take() -> str`	Draws the phone number of a potential lead from the lead source and returns it. A different phone number will be returned each time `.take()` is called. The phone number is a string. The potential lead's phone number might be missing! In this case, `take()` will return an empty string.

	Example usage:
	
	`source = LeadSource()`
	`phone_number = source.take()`

LeadPool

Represents a pool of sales leads to be serviced by sales staff.

Methods

`add(phone: str) -> None`	Adds the phone number of a sales lead to the lead pool.

	Example usage:
	
	`pool = LeadPool()`
	`pool.add('867-5309')`

`is_full() -> bool`	Returns True if the lead pool is full; False otherwise.

	Example usage:
	
	`if pool.is_full():`
	`    print('lead pool is full')`