A "Camera" used in a computer vision based application has a buffer space to store a fixed number of images. Different cameras can have buffer spaces with different sizes. The camera has a takeImage() method that should take an image whenever it detects an object. This image should be stored in the buffer space of the camera.
The "ObjectTracker" application uses several cameras that can operate independently and concurrently.

An assembly line uses two types of robots. A Drop type Robot assembles a product and puts it in a shared Storage Bin while a Pick type Robot gets an item from the bin and packages it. The Storage Bin can store a fixed number of products. Each Robot has a unique identifier and prints it on the product that it assembles or packages. A Drop type robot does not attempt to put a product on a bin that is full while a Pick type robot does not attempt to get a product from a bin that is empty.

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A pizza shop takes two types of orders: delivery orders and pick-up orders. An order can include pizzas and/or beverage bottles. Pizza can either be veg or non-veg. If it is a delivery order, a maximum of five items can be included. However, pick-up orders can include any amount of items.

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