Create a dictionary with the methods add(), get() and delete() and deleteRandom(). The delete method needs to remove a random value from the dictionary every time the method is invoked. The deleteRandom() method should also adhere to constant time as opposed to O(n). i.e. it should not iterate over the entire list to get values in order to remove the random value.

Onsite included a background / experience interview, a couple of system design questions, and a moderately challenging coding exercise.

**Interview Questions**

* A question involving substring matching. Problem seemed intended to not be amenable to clean solutions, which is probably a good thing.
* Phone screen: Implement a persistent stack
* Onsite coding challenge: Scrub JSON of confidential data
* Design an A/B testing framework.

Design a server-driven UI experience for applying to a loan.

What is caching?

I am a new grad and I did a hackerrank to get in contact with a recruiter. I then did a phone coding interview. After it got feedback, I was then sent onsite for 3 coding interviews, a Product interview, and a Hiring Manager interview. The process was very smooth overall and I would recommend applying.

* Scrub JSON of confidential data
* Design an A/B testing framework.
* Design a server-driven UI experience for applying to a loan.
* What is caching
* Linked List, Basic data structures
* It was a graph problem involving creating a class where one of the methods was finding a path inside the graph.
* (technical phone screen) Implement a data processing function in Python. The schema and use case was clearly defined and I received help along the way.
* (Onsite) Identify the ML model given some graph. (Onsite)
* Implement a decision tree algorithm.
* (Onsite) Implement a card game.
* (Onsite) Given some data science experiment data, analyze the results and draw some insights.
* Graph traversal algorithms, data structures
* Subarray products. Given an array, find the number of subarrays whose product is less than a given value ‘k’ 2. Prefix to Postfix
* Recursion
* Given two words and a dictionary, return the shortest path between two words

**Interview**

I was contacted by the recruiter to set up an interview . The tech phone screen was a nice question - checking algos and data stucture, something about a matrix. The interviewer was absolutely great and we had a good discussion at the end and he answered all my questions. I was immediately contacted for setting up an onsite interview. I was sent an email saying you will have a two hour coding interview, but was given no other information about the schedule, who I would be interviewing with and what is expected from the interviews. You are going in completely blind and that was not something I was comfortable with. Also the lunch interview was scheduled with two people and it was really awkward. I understand that a lunch interview is just a conversation and culture fit test but sometimes the two interviewers would start talking to each other and you wouldn't fit into the conversation at all. It was really weird. Also got a couple of one word answers. And then after two more interviews, I was asked to leave. Which is fine since I did not do great in the last round. The last round only focussed on infrastructure questions, even though I had made it clear that that's not something we work on everyday. So be prepared to dissect your entire infrastructure pipeline when you go here.

**Interview Questions**

* Recursive and iterative way to flatten a list, given [1, [2,3], [[[4]]]], return [1,2,3,4].

First the interviewer showed some python package in github and asked me to make changes to the package based on their project requirements. Second interview was about designing and architecture based on networking restrictions