**Advance and Core JAVA**

1. Consider the four core interfaces, Set, List, Queue, and Map. For each of the following four assignments, specify which of the four core interfaces is best-suited, and explain how to use it to implement the assignment.
2. Whimsical Toys Inc (WTI) needs to record the names of all its employees. Every month, an employee will be chosen at random from these records to receive a free toy.

* By using a List and choose a random employee by picking a number between 0 and length of the list.

1. WTI has decided that each new product will be named after an employee — but only first names will be used, and each name will be used only once. Prepare a list of unique first names.

* By using a Set because sets don't allow the same element to be entered more than once.

1. WTI decides that it only wants to use the most popular names for its toys. Count up the number of employees who have each first name.

* Use a Map, where the key, value pair is the first name and the number of employees with that name respectively.

1. WTI acquires season tickets for the local lacrosse team, to be shared by employees. Create a waiting list for this popular sport.

* In a Queue, use add() to add employees to the waiting list, and remove() to remove them.