Lab Exercise 22.03.2021

1. Write a program to check whether Frievald's algorithm. Also state the time complexity of Frievald's algorithm and which type of Randomization algorithm it comes under?

   Given three matrices A, B and C, find if C is a product of A and B.

   Examples:

```
Input : A = 1 1 1
            1 1 1
            1 1 1
        B = 1 1 1
            1 1 1
            1 1 1
        C = 3 3 3
            3 1 2
            3 3 3
Output : No
```

2. Write a program to implement Recursive Randomized Binary Search Algorithm.

   In Binary Search we had
   middle = (start + end)/2

   In Randomized binary search we do following
   Generate a random number t
   Since range of number in which we want a random number is [start, end]
   Hence we do, t = t % (end-start+1)
   Then, t = start + t;
   Hence t is a random number between start and end

   Input: list of array and No. to be searched
   Output: Position of number in the arrays