

- You can use any programming language you like. No restriction.
- Partial marking is available. So, try to perform as much as you can.
- You will get 2 hours in total.

**Problem 1.**

Write a program that stores String data into a hashing data structure and the keys are **float** numbers. The hashing formula is like:

$$\text{idx} = (\text{integer part of the key} + 1) \% \text{SIZE}$$

For example, if the key is 27.35 and SIZE=10, then-

$$\text{Idx} = (27 + 1) \% 10 = 8$$

**Problem 2.**

Write a program that stores String data into a hashing data structure and the keys are **float** numbers. The hashing formula is like:

$$\text{idx} = 2 * (\text{summation of the digits of key}) \% \text{SIZE}$$

For example, if the key is 345 and SIZE=10, then-

$$\text{Idx} = 2 * (3 + 4 + 5) \% 10 = 4$$

**Points:**

Problem no.	Points
1	10
2	10