

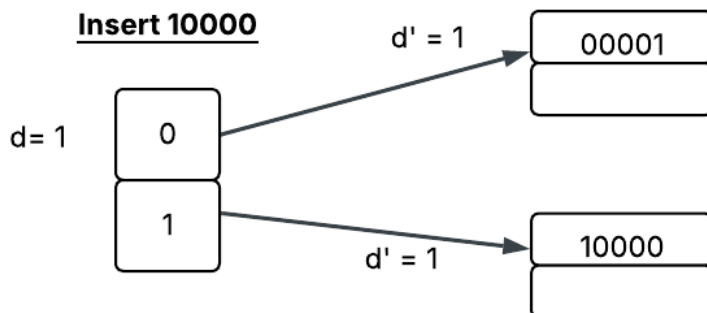
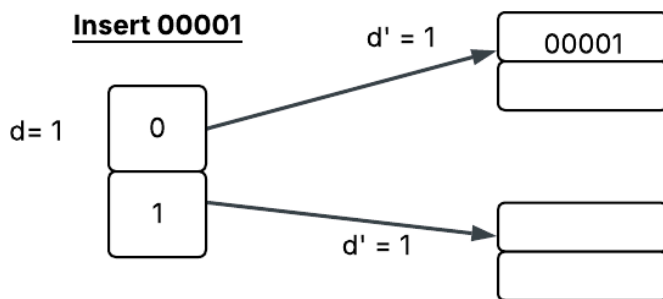
CS443 - Assignment 8

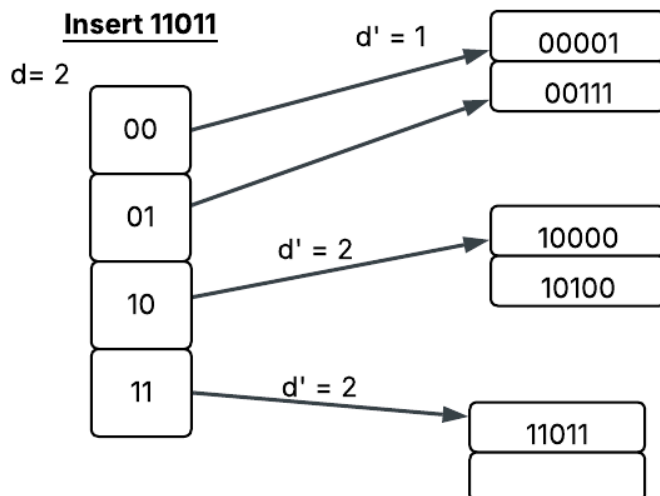
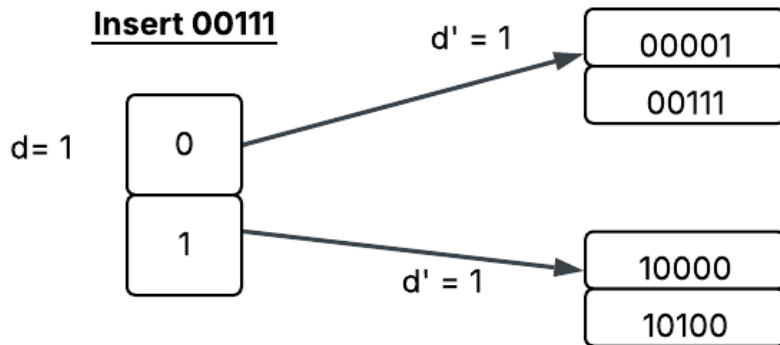
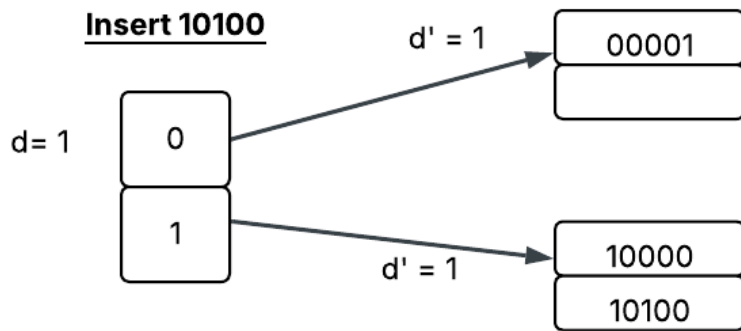
Question 1:

Use **extended hashing technique** to insert the employees in which their corresponding binary Empl_IDs are shown below. Assume you can have two employees per block. Show the depth of both global and local directories. The bits should be considered from **left to right** as shown in the lecture..

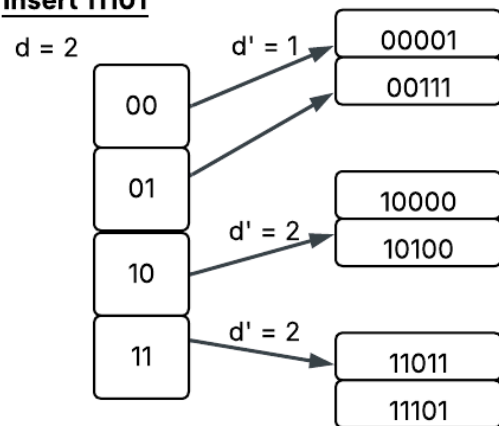
00001, 10000, 10100, 00111, 11011, 11101, 10010, 01111, 10101

Pictures also included in the folder for better view quality

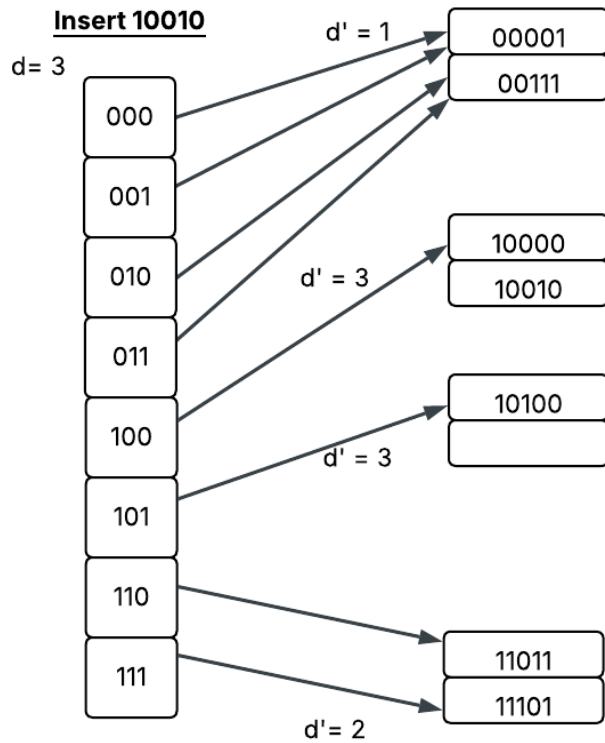


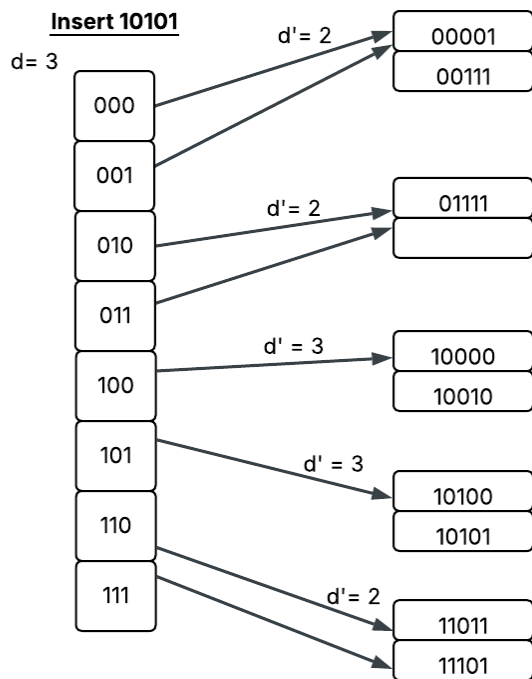
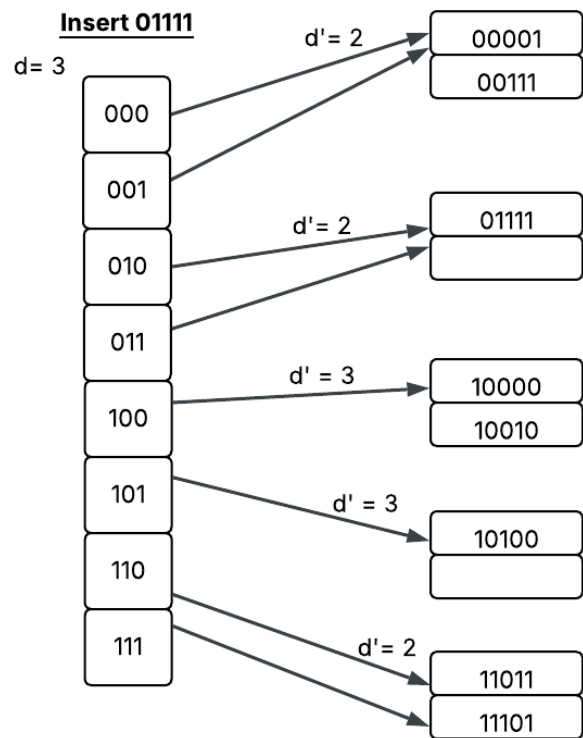


Insert 11101



Insert 10010



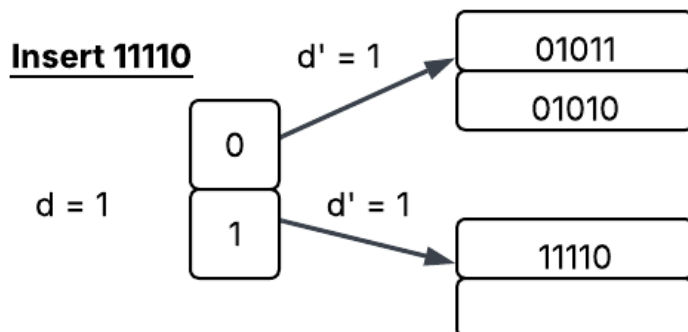
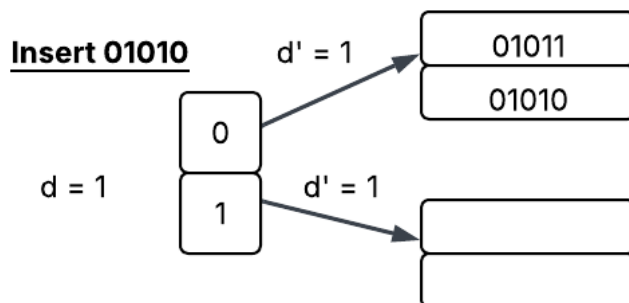
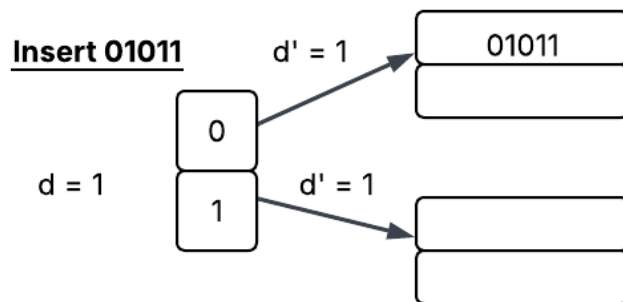


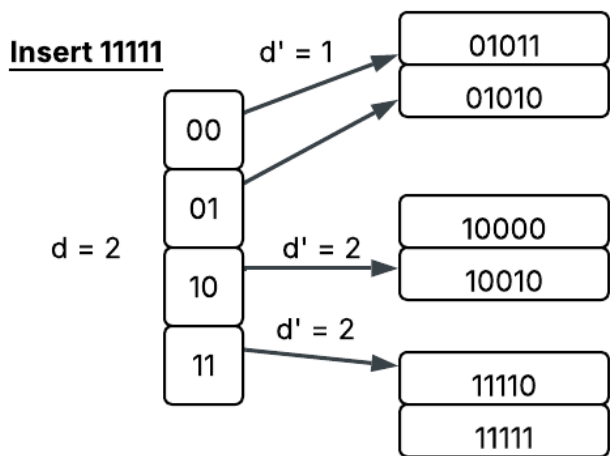
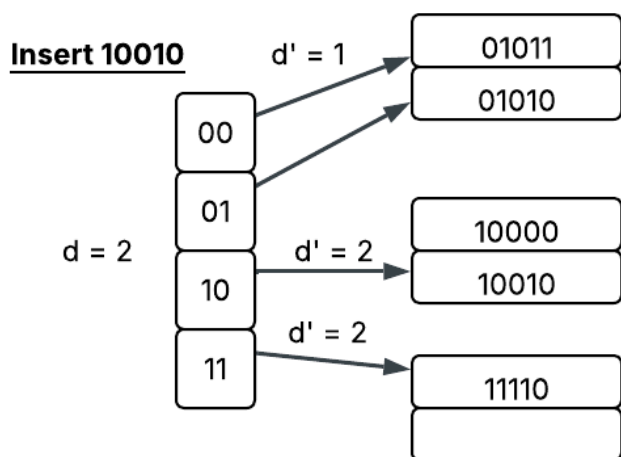
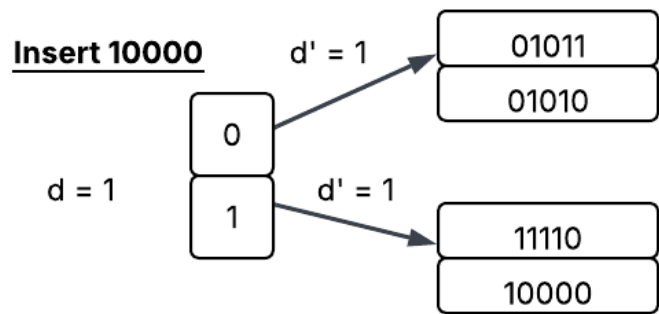
Question 2:

Use **extended hashing technique** to insert the employees in which their corresponding binary Empl_IDs are shown below. Assume you can have two employees per block. Show the depth of both global and local directories. The bits should be considered from **left to right** as shown in the lecture.

01011, 01010, 11110, 10000, 10010, 11111

Pictures also included in the folder for better view quality





Question 3:

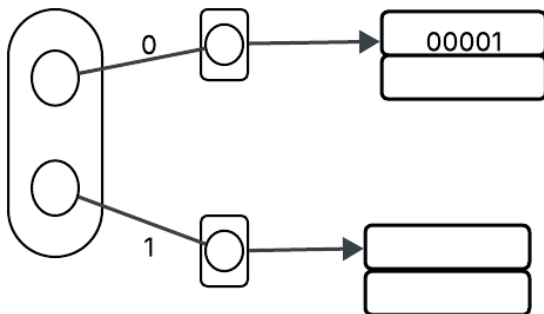
Consider the following records of question 1: (Again Digits should be considered from **left to right**)

00001, 10000, 10100, 00111, 11011, 11101, 10010, 01111, 10101

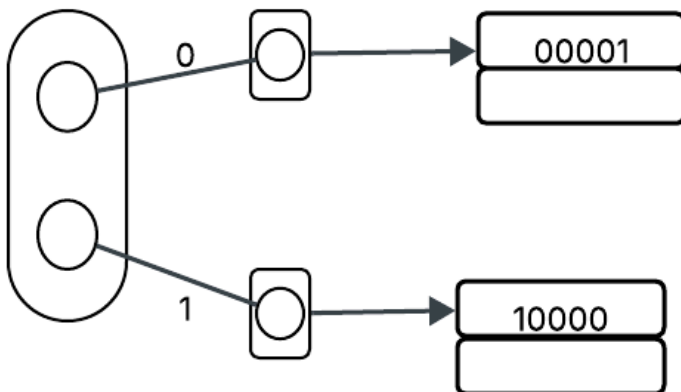
Load the records into files using **Dynamic Hashing Scheme**. You can put two records per block. Show the directory at each step, and the global and local depths.

Pictures also included in the folder for better view quality

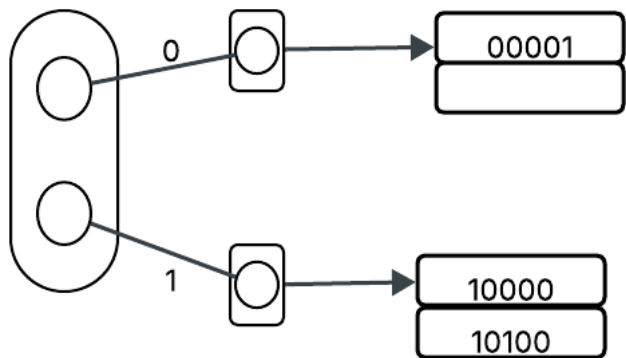
Insert 00001



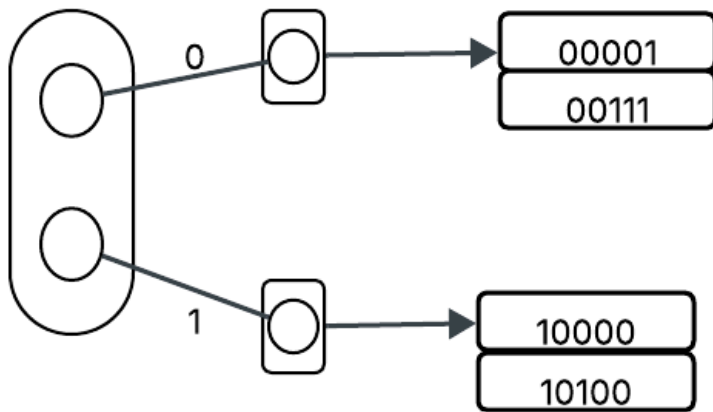
Insert 10000



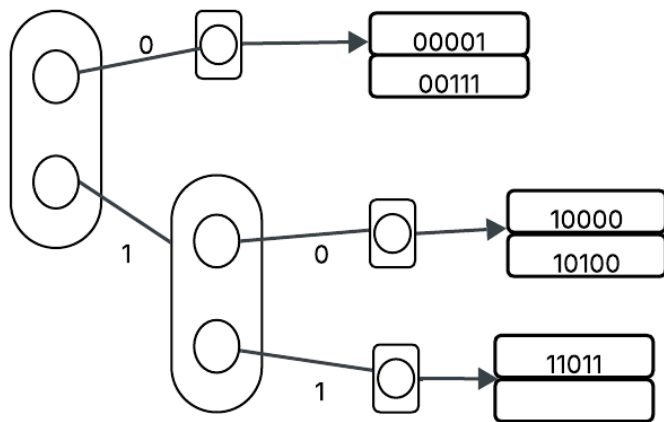
Insert 10100



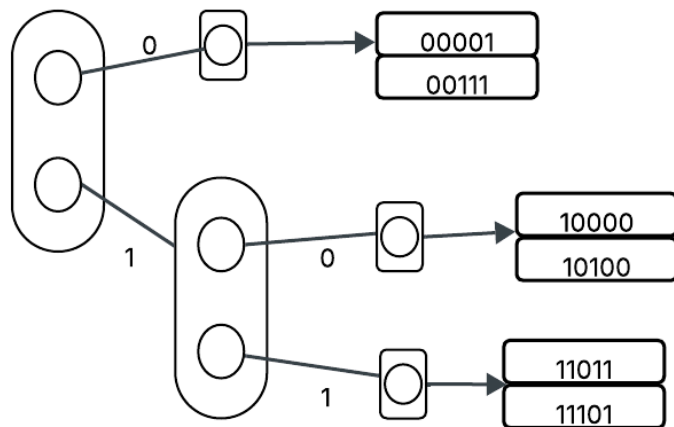
Insert 00111



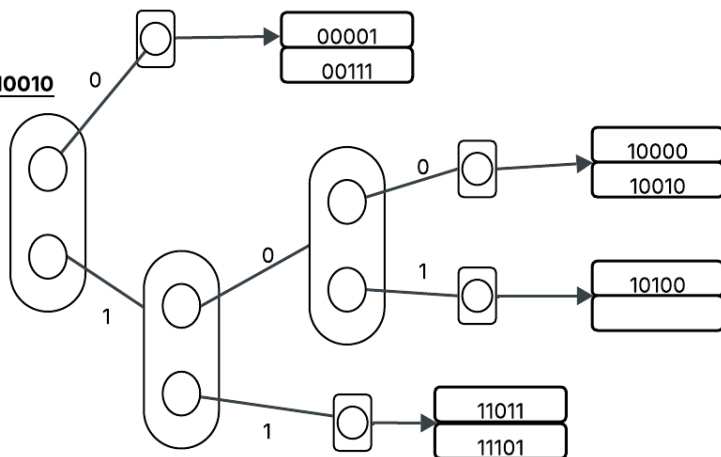
Insert 11011

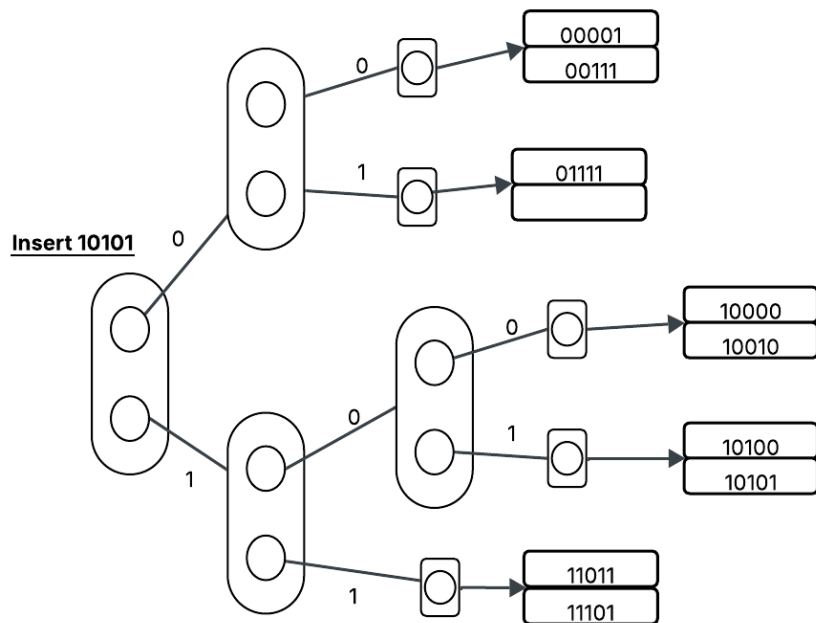
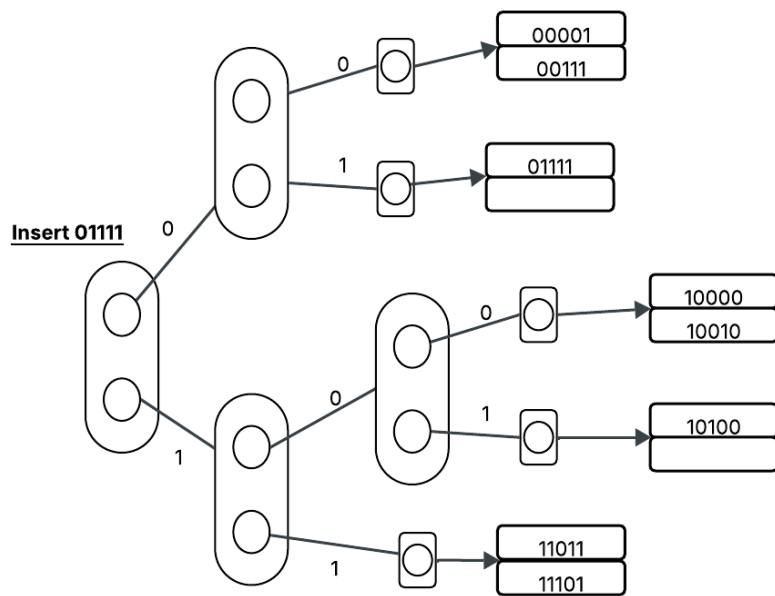


Insert 11101



Insert 10010





Question 4:

Consider the following records of question 1: (Again Digits should be considered from **left to right**)

01011, 01010, 11110, 10000, 10010, 11111

Load the records into files using **Dynamic Hashing Scheme**. You can put two records per block. Show the directory at each step, and the global and local depths.

Pictures also included in the folder for better view quality

