1. Program to replace all 0's with 1 in a given integer is discussed here. Given an integer as an input, all the 0's in the number has to be replaced with 1.

For example, consider the following number

Input: 102405

Output: 112415

Input: 56004

Output: 56114

2. Hollow diamond pattern printing using stars

**Input:** 5

**Output:**

2. \*

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3. Rotate the matrix by K times means rotating the given N\*N matrix to the specified (K) number of times. For example, consider the 3\*3 matrix, which has to be rotated once,

Matrix before Rotation :

10 20 30

40 50 60

70 80 90

Matrix after rotation :

20 30 10

50 60 40

80 90 70

Steps:

Consider the matrix as 3 rows. Each element in the row is rotated to its right once.

One efficient method is to consider each matrix row as an array and perform array rotation.

Copy the elements from K to end of array in a temporary array and then temporary array is made as the start of the array.

And then the remaining elements from start to K-1 are copied in temporary array and then set to the end of the array.

Thus, the matrix gets shifted