***Programming questions***

***(solved in C)***

Question 1) **Pizza Problem**

Given an integer N and a pizza which can be cut into pieces, each cut should be a straight line going from the center of the pizza to its border. Also, the angle between any two cuts must be a positive integer. Two pieces are equal if their appropriate angles are equal. The given pizza can be cut in following three ways:

Cut the pizza into N equal pieces.

Cut the pizza into N pieces of any size.

Cut the pizza into N pieces such that no two of them are equal.

The task is to find if it is possible to cut the pizza in the above ways for a given value of N. Print 1 if possible else 0 for all the cases i.e. print 111 if all the cases are possible.

**Examples:**

**Input: N = 4**

**Output: 1 1 1**

**Case 1: All four pieces can have angle = 90**

**Case 2: Same cut as Case 1**

**Case 3: 1, 2, 3 and 354 are the respective angles of the four pieces cut.**

**Input: N = 7**

**Output: 0 1 1**