

# STUDENT REPORT

## **DETAILS**

#### Name

Aayyon Khan

#### **Roll Number**

3BR23ME011

## **EXPERIMENT**

#### Title

**ROBO RACE** 

#### **Description**

There is a robot race happening between two robots named Robotop and Robocop. Both the robots reach the starting point to begin the race on a Circular track

Race starts at time T = 0 seconds. Robotop starts the race at T = Xth second and takes exactly N seconds to complete one lap. On the other hand. Robocop starts the race at T = Yth second and takes exactly M seconds to complete one lap.

Your task is to find and return an integer value, representing the least time T (in seconds) at which these two robots meet each other again at the starting point.

#### **Sample Input:**

2 3 1 4

#### **Sample Output:**

5

### **Explanation:**

X=2, N=3, Y=1, N=4

Robotop starts at T=2 and completes one lap every 3 seconds. Robocop starts at T=1 and completes one lap every 4 seconds. The smallest point where both meet at the starting point is 5 seconds.

### **Source Code:**

9/27/24, 3:41 PM 3BR23ME011-Robo Race

5 / 5 Test Cases Passed | 100 %