1/16/25, 4:49 PM 23D21A05H4-Robo Race

STUDENT REPORT Roll Number 3 77 1 1 5 1 **DETAILS** Name SAMALA JAHNAVI 23D21A05H4 EXP. Title
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Pr **EXPERIMENT** ROBO RACE Source Code: Description There is a robot race happening between two robots import math named Robotop and Robocop. Both the robots reach the def find_least_time(X,N,Y,M): starting point to begin the race on a Circular track lcm = (N*M)//math.gcd(N,M)T= max(X,Y)Race starts at time T = 0 seconds. Robotop starts the race while True: if(T-X) % N == 0 and (T-Y)% M == 0:at T = Xth second and takes exactly N seconds to complete return T one lap. On the other hand. Robocop starts the race at T =T+=1 Yth second and takes exactly M seconds to complete one X,N,Y,M = map(int,input().split()) print(find_least_time(X,N,Y,M)) 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: **Explanation:** X=2, N=3, Y=1, N=4 Robotop starts at T=2 and completes one lap every 3 seconds.

RESULT

seconds.

4 / 5 Test Cases Passed | 80 %

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

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