**KLA Technical Round 1**

**Question 1**:

There are two points given (A,B) and (C,D).

Can we reach to the (X,Y) position? Print all the steps required to reach (X,Y) point?

2 repetitive Steps you can perform is either go like (A, A+B) or (C+D, D).

**Question 2**:

This is hackerrank question not remember the exact question but question all about joining the tools with minimum tools to reach destination.

I searched this question in hackerrank but i am unable to find the exact question

**Question 3**: This is not coding this just problem solving question

### **Problem: Maximize Purchases from Mall Racks**

#### **Description:**

You are in a mall where there are NNN racks arranged in a row. Each rack contains a certain number of items. You want to maximize the total number of items you can pick. However, there are the following rules:

1. You can start picking items from **either end** of the row (leftmost or rightmost rack).
2. Once you pick from one side of a rack, you must continue picking items from racks on the same side until the rack is empty or you decide to switch sides.
3. Switching sides comes with a cost, which reduces the number of items you can pick.
4. You must decide the optimal way to pick items such that the total number of items is maximized.