import java.util.\*;

public class ForecastMain {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        List<Double> revenueList = new ArrayList<>();

        System.out.print("Enter number of past months: ");

        int months = sc.nextInt();

        for (int i = 0; i < months; i++) {

            System.out.print("Enter revenue for month " + (i + 1) + ": ");

            revenueList.add(sc.nextDouble());

        }

        System.out.print("Enter number of future months to forecast: ");

        int futureMonths = sc.nextInt();

        List<Double> forecast = FinancialForecast.forecast(revenueList, futureMonths);

        System.out.println("\n Financial Forecast :");

        for (int i = 0; i < forecast.size(); i++) {

            if (i < months)

                System.out.printf("Month %d (Actual): %.2f\n", i + 1, forecast.get(i));

            else

                System.out.printf("Month %d (Forecast): %.2f\n", i + 1, forecast.get(i));

        }

    }

}