1	Reverse Array	Write a program that takes an array of size N as input and gives the output as an array in the reverse order. The format of the input is as follow: N a1 a2 a3 a4 a5 … an 'N' is the size of the array and a1, a2, a3, … an, are its elements. Your program should give output (on the same line and separated by a space) as follows: an an-1 an-2 … a1 Example Case 1: For input provided as follows: 3 1 2 3 Output of the program will be: 3 2 1 Description: As the input is 1 2 3, if we reverse these numbers we get: 3 2 1. Case 2: For the input provided as follows: 4 1 2 1 0 Output of the program will be: 0 1 2 1 Description: The reversed order of the input is 0 1 2 1.	Attempted	Right Solution	Retry

2	Maximum Number Linked List	Write a program that takes a single linked list of integers of positive size N and outputs the maximum number from the inputted list. The input will be given in one line in the following format: N a1 a2 a3 a4 a5 … an N is the size of the list and a1, a2, a3, …, an are the integers present on the list indicating that a1 has a link to a2, a2 has a link to a3 and so on. Example Case 1: For input provided as follows: 7 1 5 1 4 9 0 4 Output of the program will be: 9 Description: The maximum number present on the list is the number 9. Case 2: For the input provided as follows: 7 1 10 0 1 2 3 9 Output of the program will be: 10 Description: The maximum number present on the list is the number 10.	Attempted	Right Solution	Retry

3	Circle Intersection	Write a program that takes the center co-ordinates and radius of two circles and gives output YES, if they intersect each other, otherwise gives output NO. The input will be given in the following format: x1 y1 c1 x2 y2 c2 One line for each circle, where xi,yi stands for the center coordinates of the i-th circle and c1 for its radius. Note that xi, yi and ci are all integers. Two circles intersect each other if it's not possible to find a line that separates them. Example Case 1: For the input provided as follows: 0 0 1 0 0 2 Output of the program will be: YES Description: Since they share the same center co-ordinates, they intersect each other. Case 2: For the input provided as follows: 0 0 1 4 0 2 Output of the program will be: NO Description: They do not share any point, so they do not intersect with each other.	Attempted	Right Solution	Retry

4	From Cartesian to Polar	Given a set of points in rectangular Cartesian coordinates. You are required to transform them into polar coordinates. You must output both the radius and the angle, rounded to 2 decimal places. The angle must be in the range [0, 360) and should be measured counter-clockwise taking the x-axis as reference. The first line of the input will contain a single integer N. N lines follow, each one with 2 floating point numbers, corresponding to x and y coordinates, respectively. For each one, output a line with the proper radius and angle, separated by a single blank space. Case 1: For the input provided as follows: 2 1 1 -1 -1 Output of the program will be: 1.41 45.00 1.41 225.00 Case 2: For the input provided as follows: 4 3 0 0 3 -3 0 0 -3 Output of the program will be: 3.00 0.00 3.00 90.00 3.00 180.00 3.00 270.00	Attempted	Right Solution	Retry

5	Area	Write a program that takes one integer N and one array of size 2 x N, containing coordinates of N points. The array will be given in one line in the following format: N x1 y1 x2 y2 … xn yn The second line will contain 2 x N integers, representing the points of a convex polygon given in the clockwise order. Your program should output the total area of the inputted convex polygon with precision of two decimal places. Example: Case 1: For the input provided as follows: 4 0 0 0 4 4 4 4 0 Output of the program will be: 16.00 Case 2: For the input provided as follows: 3 0 0 0 4 4 4 Output of the program will be: 8.00	Attempted	Right Solution	Retry