1. Write a program to merge two arrays of integers by reading one number at a time from each array until

one of the array is exhausted, and then concatenating the remaining numbers.

Input: [23,60,94,3,102] and [42,16,74]

Output: [23,42,60,16,94,74,3,102]

2.Write a program which takes an array of integers and prints the running average of 3 consecutive integers.

In case the array has fewer than 3 integers, there should be no output.

Input: [5,14,35,89,140]

Output: [18, 46, 88]

(Explanation: 18=(5+14+35/3, 46=(14+35+89)/3, ...)

3. Write a program which generates the series 1,4,27,16,125,36

4.Given an array of integers, print whether the numbers are in ascending order or in descending order or

in random order without sorting

Input: [5,14,35,90,139] Output: Ascending

Input: [88,67,35,14,-12] Output: Descending

Input: [65,14,129,34,7] Output: Random

5.Print the third-largest number in an array without sorting it

Input: [ 24,54,31,16,82,45,67]

Output: 54 (82 and 67 are the largest and second-largest)