1) An array is defined to be a 235 array if the number of elements divisible by 2 plus the number of elements divisible by 3 plus the number of elements divisible by 5 plus the number of elements not divisible by 2, 3, or 5 is equal to the number of elements of the array. Write a method named is123Array that returns 1 if its array argument is a 235array, otherwise it returns 0.

   The signature of the function is: static int is235Array(int [] arr)

2) Write a function named sameNumberOfFactors that takes two integer arguments and rturns 1 if they have the same number of factors. If either argument is negative, return -1 Otherwise return 0.

   The signature of the function is: int sameNumberOfFactors(int n1, int n2)

3) An array arr is called Funny if every 5 in the array is immediately followed by 13, otherwise it is not. write a function isFunny its signature is given below that takes an array of integers as input that checks whether the array is funny or not. The function must return 1 if the array is funny otherwise it returns 0.

   The signature of the function is: `int isFunny(int[] arr);`

4) An array arr is called isNice if every element in the array is less than the sum of other elements in the array. write a function isNice its signature is given that takes an array of integers as input and checks whether the given array, arr, is Nice or not. The function returns 1,if the array is Nice otherwise it returns 0.

   The signature of the function is: `int isNice(int[] arr);`

5) Write a function named largestAdjacentSum that iterates through an array computing the sum of adjacent elements and returning the largest such sum. You may assume that the array has at least 2 elements.

   If you are writing in Java or C#, the function signature is int largestAdjacentSum(int[ ] a)
   If you are writing in C or C++, the function signature is int largestAdjacentSum(int a[ ], int len) where len is the number of elements in a