Amex

Question 1

The idea is to maximize the value of N for the vertices with highest Degree.

public static int highestSum(int N, int[] A, int[] B) {

// Initialize a DP array to save the Degree of Each Vertex of Graph

int[] dp = new int[N + 1];

int sum = 0;

// Iterate over A and B and increase the index value in DP array

for (int i = 0; i < A.length; i++) {

dp[A[i]]++;

dp[B[i]]++;

}

// Sort the array so that we can assign max value of N to Vertex with maximum

// //degree

Arrays.sort(dp);

for (int j = dp.length - 1; j > 0; j--) {

sum += dp[j] \* j;

}

return sum;

}