CODE 2:

public class MaxPathSum{

public static int maxPathSum(int[] X, int[] Y) {

int i = 0, j = 0, result = 0, sum1 = 0, sum2 = 0;

while (i < X.length && j < Y.length) {

if (X[i] < Y[j]) {

sum1 += X[i++];

} else if (Y[j] < X[i]) {

sum2 += Y[j++];

} else {

result += Math.max(sum1, sum2) + X[i];

sum1 = 0;

sum2 = 0;

i++;

j++;

}

}

while (i < X.length) {

sum1 += X[i++];

}

while (j < Y.length) {

sum2 += Y[j++];

}

result += Math.max(sum1, sum2);

return result;

}

public static void main(String[] args) {

int[] X = {3, 6, 7, 8, 10, 12, 15, 18, 100};

int[] Y = {1, 2, 3, 5, 7, 9, 10, 11, 15, 16, 18, 25, 50};

System.out.println("Maximum sum path is: " + maxPathSum(X, Y));

}

}