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package com.mycompany.intercalar;

import java.util.Scanner;

public class Intercalar {

    public static void main(String[] args) {
//Objetos utilizados
        Scanner teclado = new Scanner(System.in);

//Variables utilizadas en el programa
        int vectorA[];
        int vectorB[];
        int m;
        int n;
        int escalonA = 0;
        int escalonB = 1;
        int posicionGlobal = 0;
        int counterGlobal = 0;

//Input del usuario tamaño del vector A
        System.out.println("Introduzca el length del vector a");
        m = teclado.nextInt();

//Input del usuario tamaño del vector B
        System.out.println("Introduzca el length del vector b");
        n = teclado.nextInt();
        int vectorC[];
        vectorA = new int[m];
        vectorB = new int[n];
        vectorC = new int[m + n];

//Imprenta del vector A
        System.out.println("Vector A");
        for (int i = 0; i < m; i++) {
            vectorA[i] = 10 + i;
            System.out.print(vectorA[i] + ", ");
        }

//Imprenta del vector B
        System.out.println("");
        System.out.println("Vector B");
        for (int i = 0; i < n; i++) {
            vectorB[i] = 50 + i;
            System.out.print(vectorB[i] + ", ");
        }

//Operaciones logicas (3 casos)
        if (m >= n) {
            if (m == n) {
//A igual que B FUNCIONA
                System.out.println("");
                System.out.println("Son iguales");
                for (int i = 0; i < m; i++) {
                    vectorC[escalonA] = vectorA[i];
                    if (vectorB.length > i) {
                        vectorC[escalonB] = vectorB[i];
                    }
                    escalonA += 2;
                }
            }
        }
    }
}

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        escalonB += 2;
    }
} else {
//A mayor que B FUNCIONA
    System.out.println("");
    System.out.println("vector a es mayor");
    for (int i = 0; i < vectorB.length; i++) {
        vectorC[escalonA] = vectorA[i];
        if (vectorB.length > i) {
            vectorC[escalonB] = vectorB[i];
        }
        escalonA += 2;
        escalonB += 2;
        posicionGlobal = i;
    }
    for (int i = (posicionGlobal + vectorB.length + 1); i < vectorC.length; i++) {
        vectorC[i] = vectorA[n + counterGlobal];
        counterGlobal += 1;
    }
}
} else {
//B mayor que A FUNCIONA
    System.out.println("el vector b es mayor");
    for (int i = 0; i < vectorA.length; i++) {
        vectorC[escalonA] = vectorA[i];
        if (vectorB.length > i) {
            vectorC[escalonB] = vectorB[i];
        }
        escalonA += 2;
        escalonB += 2;
        posicionGlobal = i;
        System.out.println("asignacion" + (1 + i));
    }
    for (int i = (posicionGlobal + vectorA.length + 1); i < vectorC.length; i++) {
        vectorC[i] = vectorB[m + counterGlobal];
        counterGlobal += 1;
    }
}
}
//Imprenta del vector C
    System.out.println("El vector c tiene los valores: ");
    for (int i = 0; i < vectorC.length; i++) {
        System.out.print(vectorC[i] + ", ");
    }
}
}
}

```