### **Question 1 [15 Points]**

Write a method to calculate the sum of all the sorted columns in ascending order in a given 2D matrix. **[You are not allowed to use any built-in functions like sort() or sorted()]**

| **Sample Input:** | **Sample Output:** | **Explanation:** |
| --- | --- | --- |
| | **4** | **-1** | **1** | **-2** | | --- | --- | --- | --- | | **6** | **5** | **2** | **0** | | **9** | **4** | **3** | **2** | | **10** | **6** | **4** | **3** | | **12** | **7** | **5** | **6** | | **Sum = 65** | **Sum = (4+6+9+10+12) + (1+2+3+4+5) + (-2+0+2+3+6) = (41 + 15 + 9) = 65**  **Here, the sorted columns in ascending order are the 0, 1 and 2 numbered columns. Therefore, the sum of the elements of these three columns is printed as the output.** |