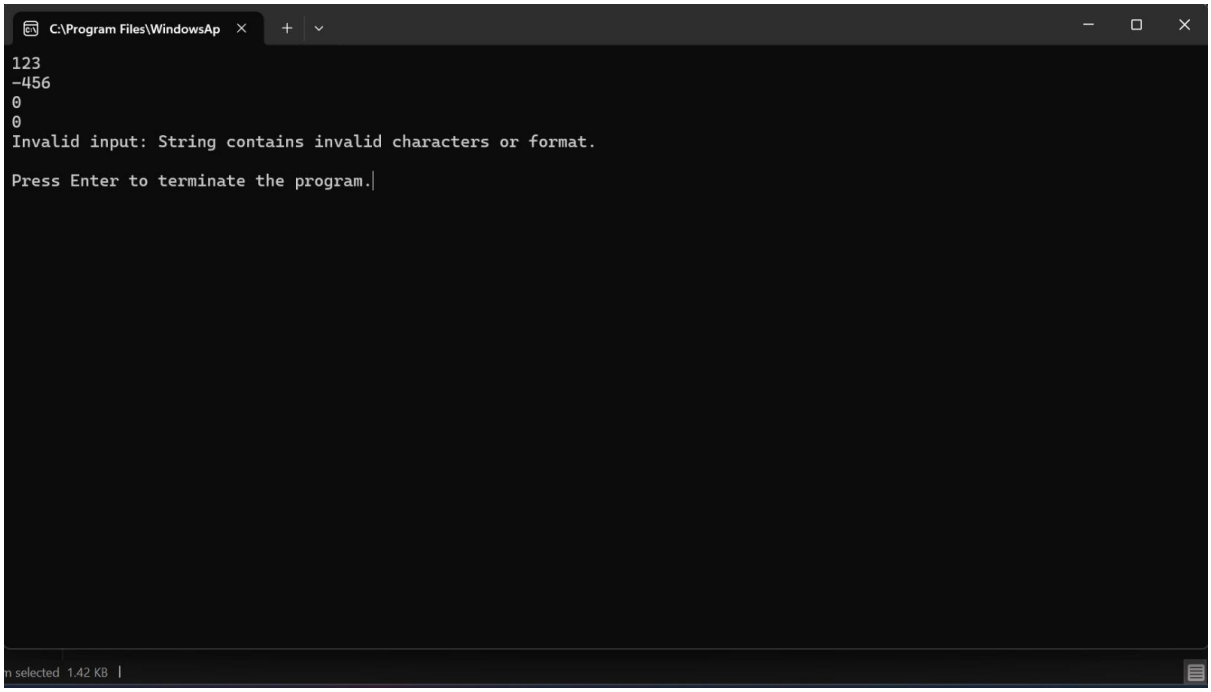
Question 4a):

Screenshot of my program's output: