110 Q4 SAT 28/3 Sec**\_**Student**ID** \_\_\_\_\_\_\_\_\_\_\_ **Name in CAPITAL** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You can use pencil / pen / both. Pencil users cannot report problems/mistakes in checking this quiz paper when it will be returned back to you after checking. Forgetting to fill above blanks means, you are absent. You can use the other side of the pages as well for any of your answers if you need more space.

* Do not overwrite, instead cross-out/strikethrough ~~like this~~ and write again.
* Understanding the question is part of the exam. Manage space well/use column, no extra page will be given

Q1) Draw **flowchart** of a program that asks the user for three inputs (the value of **n, firstTerm** and **negativeCount**) and then prints summation of the series as shown below. If usager gives 3 as value for negative Count, then every third term of the series will have a negative sign.

Example1: If user gives **2**, **8,** and **3**, then print **24** (because sum of first **TWO** terms of **EIGHT**’s series is 8+16 = 24).

8 + 16 **-** 24 + 32 + 40 **-** 48 + 56 + 64 **-** 72 + 80 + 88 …….. up to nth term

Example2: If user gives **5**, **6,** and **3**, then print **54** (because sum of first **FIVE** terms of **SIX**’s series is 6+12**-**18+24+30 = 54).

6 + 12 **-** 18 + 24 + 30 **-** 36 + 42 + 48 **-** 54 + 60 + 66 - 72 +…….. up to nth term

Example3: If user gives **5**, **6,** and **4**, then print **54** (because sum of first **FIVE** terms of **SIX**’s series is 6+12**+**18-24+30 = 42).

6 + 12 **+** 18 - 24 + 30 **+** 36 + 42 - 48 **+** 54 + 60 + 66 -72 + …….. up to nth term

Q2) Write Javacode of Q1