Program Structures and Algorithms

Spring 2023 (SEC—8)

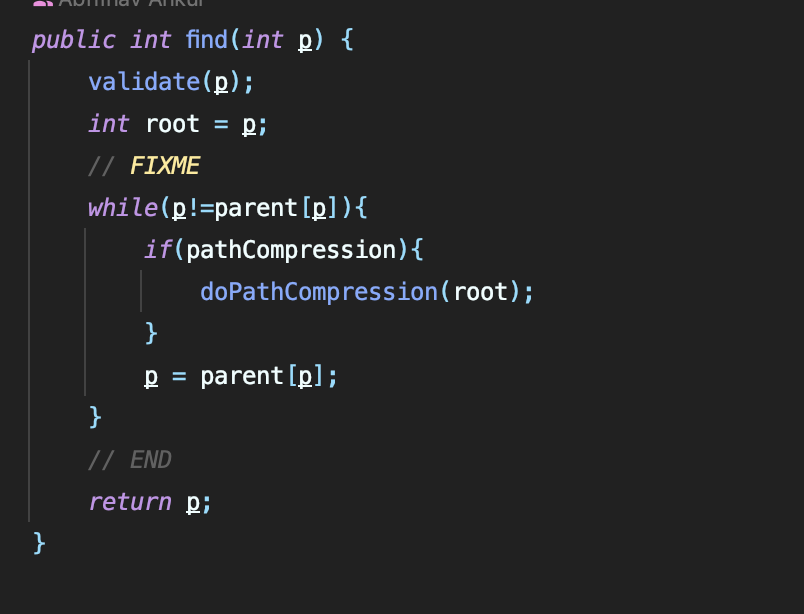
NAME – Abhinav Ankur

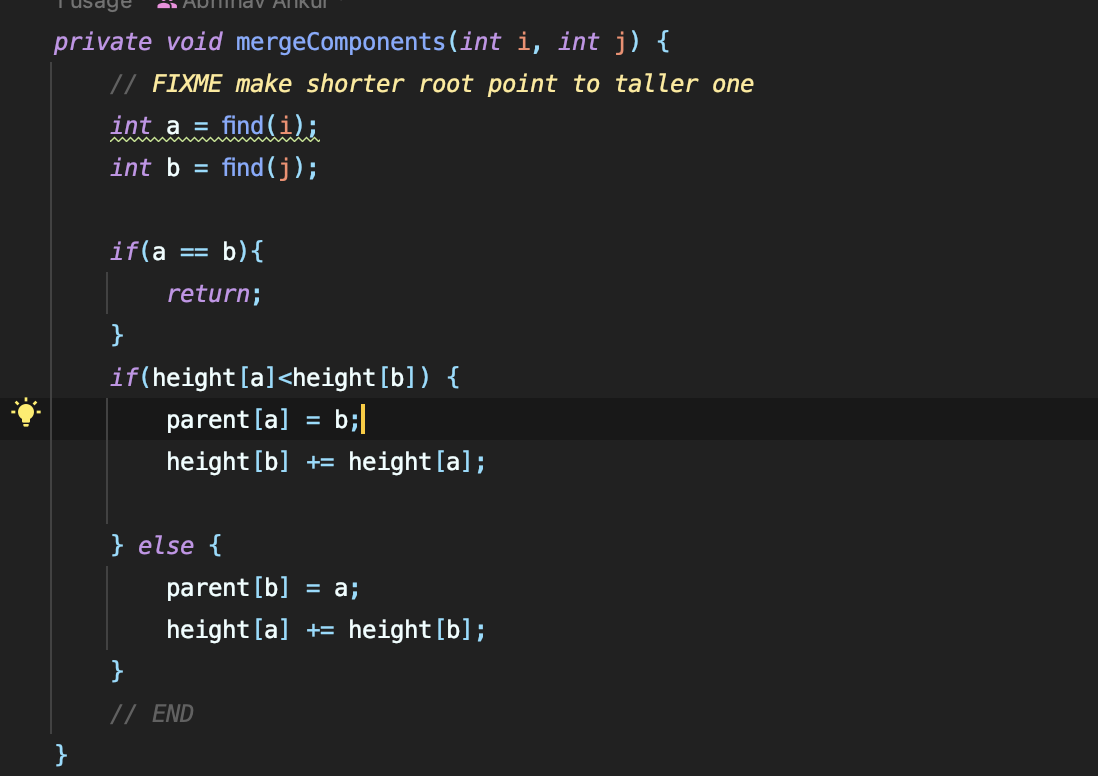
NUID – 002747605

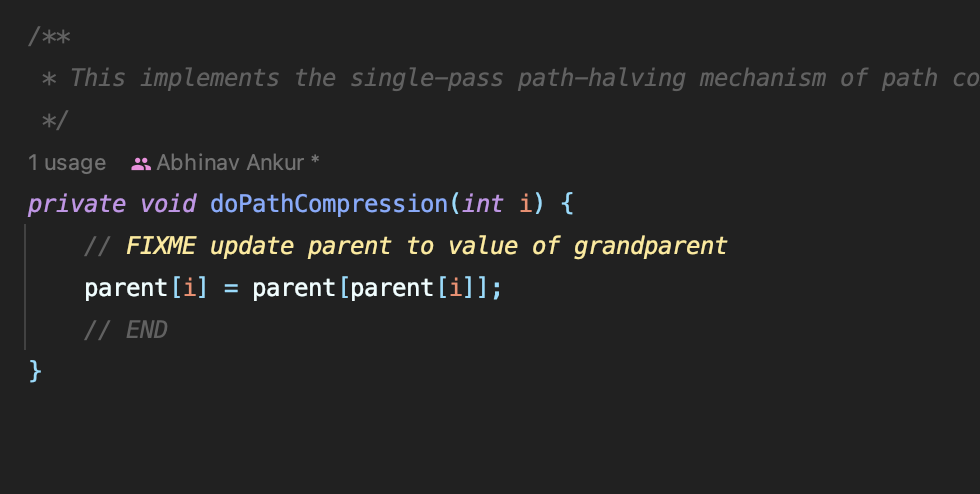
**Task** –

Your task is - Implement height-weighted Quick Union with Path Compression.

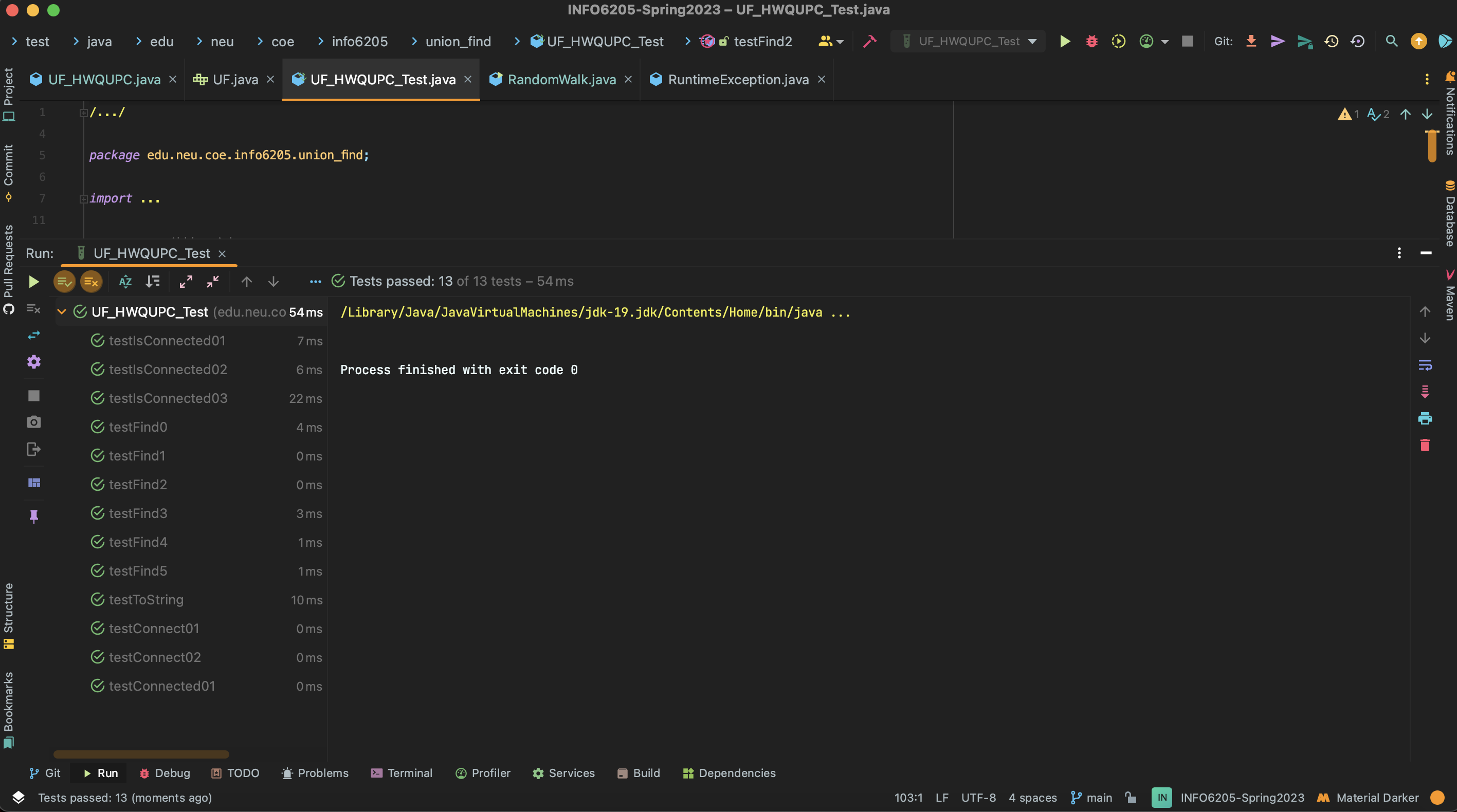
**Part 1(a)**

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Part 1(b)



2

Text

Description automatically generated

RunsText

Description automatically generated

3 Relationship

Chart, line chart

Description automatically generated

From the above results we can conclude that

M = ½(n\*ln(n))