Program Structures and Algorithms

Assignment 4

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**Task** –

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

**Part – 1a :**

**A computer screen shot of a computer

Description automatically generated**

A computer screen shot of a program

Description automatically generated

**Part – 1b (Passed all test cases)**

A screenshot of a computer

Description automatically generated

**Relationship between Number of Objects and Number of Connections :**

A screenshot of a computer

Description automatically generated

A screenshot of a computer

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A screenshot of a computer

Description automatically generated

From the above , we can conclude that the relation between number of objects and connections is ½(n\*ln(n))