



Test Content 1

Due Monday by 11.50nn Points 10 Submitting a wyballe set or a file select Available Oct 8 at 8am - Oct 21 at 11-58nm Your task is Que 1: you have to do is to fill in the sections marked with if TO BE IMPLEMENTED ... If _END IMPLEMENTATION. fol Check that the unit texts for this class all work. You must show "errors" text results in your submission is resembled is OKS Using your implementation of UF_HWQUPC, develop a UF ("union-find") client that takes an integer value in from the command five to determine the number of "sites." Then generates random pairs of integers between 0 and n-1, calling connected) to determine if they are connected and union() if not. Loop until all sites are connected then print the number of connections generated. Package your program as a static method count() that takes in as the argument and returns the

number of connections; and a main!) that takes in from the command line, calls count!) and prints the returned value. If you prefer, you can create a main program that doesn't require any input and runs the experiment for a fixed set of n values. Show evidence of your runtil. Determine the relationship between the number of objects (ri) and the number of pairs (ni) generated to accomplish this think might be going on. Test Content 2

Assignment 4 (WQUPC) Due Monday by 11:59pm Points 50 Submitting a website orl or a file upload Appliable Oct 8 of Ram - Oct 21 of 11-50 cm Your task is (a) Implement height-weighted Quick Union with Path Compression. For this, you will finsh out the class UF HWQUPC, All you have to do is to fill in the sections marked with if TO BE IMPLEMENTED ... If _END IMPLEMENTATION. 5tro 2: Using your implementation of CE HWCCIPC, develop a CE Cunion for Client that takes as interer value is from the command fine to determine the number of "vites." Then proventes conduct only of interest between 0 and o.1. calling of connections generated. Package your program as a static method count() that takes in as the argument and returns the number of connections; and a main() that takes in from the command line, calls count() and prints the returned value. If you prefer, you can create a main program that doesn't require any input and runs the experiment for a fixed set of nivalues.

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Window Street, Inc.

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Determine the relationship between the number of objects (n) and the number of pairs (m) generated to accomplish this (i.e. to reduce the number of components from a to 1). ms of your observations and what you think might be going on.

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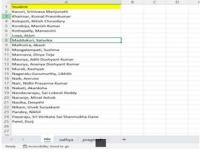
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