

Problem Set #4
Graded Quiz • 10 min



Due Sep 8, 11:59 PM PDTQ

viii. LINEAR-TIME SELECTION again once you are ready

Try again

GRADE 28%

IX. GRAPHS AND THE CONTRACTION ALGORITHM

Problem Set #4

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28% Problems (Batch #2)



Submit your assignment

DUE Sep 8, 11:59 PM PDT **ATTEMPTS** 2 every 12 hours

Programming Assignment

1.#4 How many different minimum cuts are there in a tree with n nodes (ie. n-1 $\log n$

1 / 1 point

Final Exam (1 attempt per

24 hours)





 $\binom{n}{2}$

•

Receive grade

TO PASS 80% or higher

Grade

28%

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We keep your highest score



Correct

Each edge defines a distinct minimum cut (with one crossing edge).





2. Let "output" denote the cut output by Karger's min cut algorithm on a given connected graph with n vertices, and let $p=rac{1}{\binom{n}{2}}$. Which of the following

0.4 / 1 point

statements are true?

For hints on this question, you might want to watch the short optional video on "Counting Minimum Cuts".

/

For every graph G with n nodes, there exists a min cut (A,B) such that

$$Pr[out = (A, B)] \leq p.$$