

Correct

The greedy shortest common superstrings works by repeatedly:

finding the read that contains the most other reads as substrings

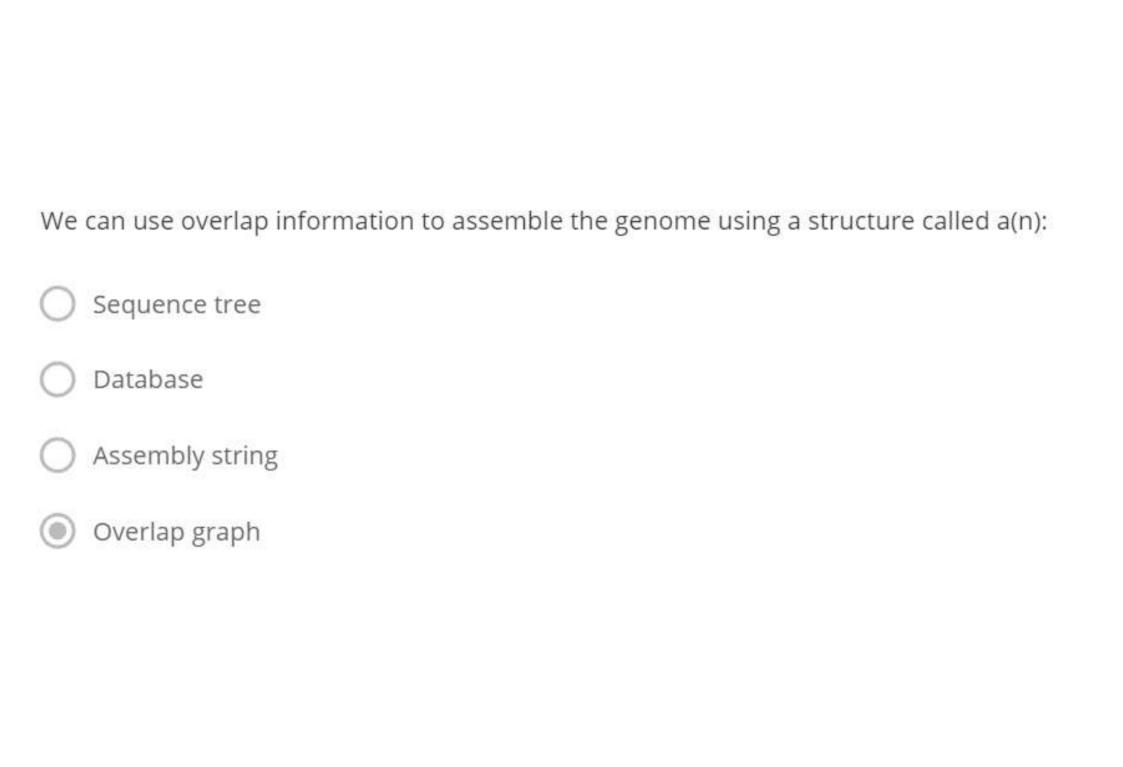
discarding reads that don't belong in the genome

concatenating random pairs of reads

merging pairs of reads that overlap each other



After filling the approximate matching matrix, we can find the minimal edit distance between P and a substring of T by:
Taking the value of the element in the lower right corder
Taking the minimum element in the first (top) row
Taking the minimum element in the last (bottom) row
Taking the minimum element in the matrix



Which problem corresponds to a situation where we are analyzing sequencing data from a species that has never been sequenced before:

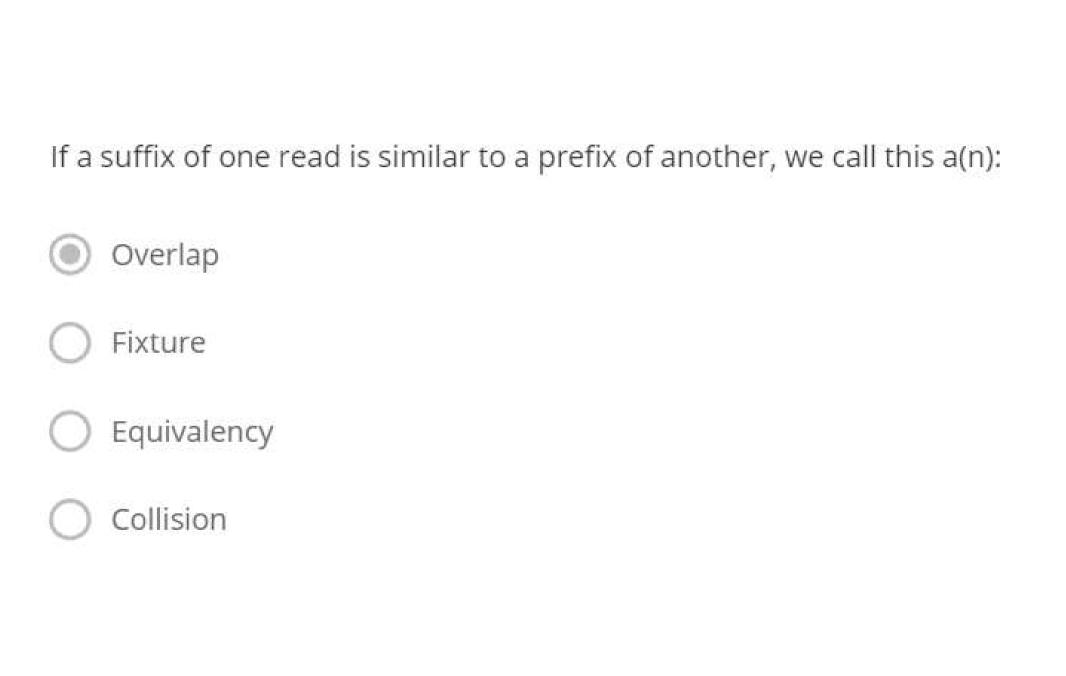
- Assembly
- Read alignment

Correct

True or false: the greedy shortest common superstring algorithm will never report a shortest common superstring that's longer than the true shortest common superstring:

- O True
- False

✓ Correct



Global alignment is concerned with the overall similarity between two strings X and Y, whereas local alignment is concerned with
the longest common prefix of X and Y
similarities between several strings, including but not limited to X and Y
the places where X occurs approximately within Y
similarities between substrings of X and Y
✓ Correct

A vertical move in the traceback corresponds to:

- An match in P with respect to T
- An deletion in P with respect to T
- A substitution between P and T
- A insertion between P and T



The shortest common superstring problem is: given a set S of strings, we would like to find a string that:
Is shorter than any of the strings in S
Contains all the strings in S as substrings
Is a permutation of all the strings in S
Is different from all the strings in S

The main difference between edit distance and global alignment is that	
edit distance weighs all differences equally, where as global alignment can give different weights to different mutations	
edit distance deals with two strings, whereas global alignment can deal with any number of strings	
edit distance is substantially more work than global alignment	
edit distance is only defined between two strings of the same length, where as global alignment score is defined for two strings regardless of	f length
✓ Correct	