

- Output:** The longest substring that occurs in both $Text_1$ and $Text_2$.

Test Cases

Case 1

Description: The sample dataset is not actually run on your code.

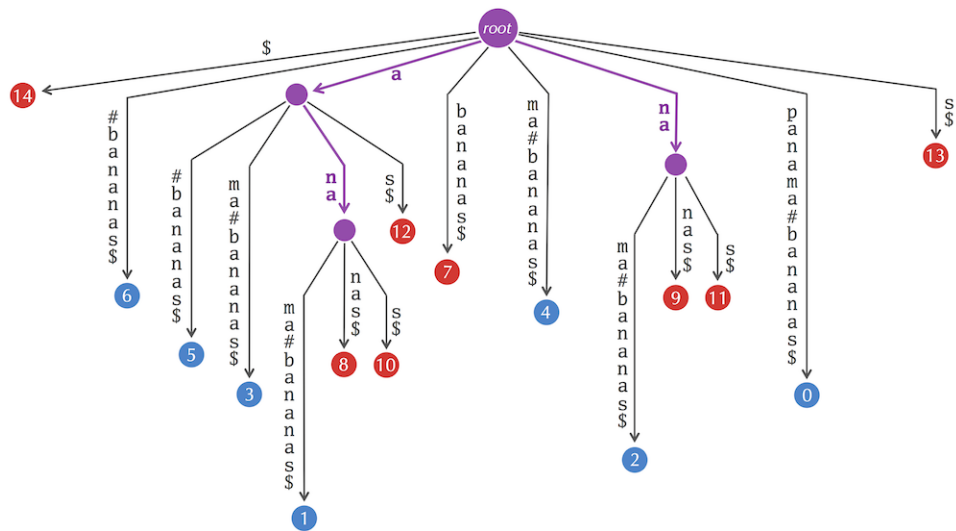
Input:

panama
bananas

Output:

ana

Figure:



Shown above is the suffix tree of the string `panama#bananas$`. Blue and red leaves represent suffixes that start in `panama` and `bananas`, respectively. An internal node is colored purple if it has both blue and red descendants. Each purple node is a shared substring of `panama` and `bananas`. The longest shared substring (purple node) is `ana`.

Case 2

Description: $Text_1$ and $Text_2$ have no common substring.

Input:

GAGA

CTCT

Output:

Case 3

Description: $Text_1$ and $Text_2$ only share 1-mers.

Input:

GAGT

GGCT

Output:

C or G or T (*you will not be penalized for having one over the other, but make sure you only output one*).

Case 4

Description: $Text_1 = Text_2$.

Input:

GAGCAT

GAGCAT

Output:

GAGCAT

Case 5

Description: The suffix of $Text_1$ and the prefix of $Text_2$ are the same.

Input:

GAGCAT

CATAGA

Output:

CAT

Case 6

Description: A larger dataset of the same size as that provided by the randomized autograder. Check input/output folders for this dataset.