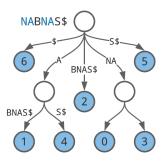
9D Find the Longest Repeat in a String

Longest Repeat Problem

Find the longest repeat in a string.

Input: A string *Text*.

Output: A longest substring of *Text* that appears in *Text* more than once.



Formatting

Input: A string *Text*.

Output: The longest substring that appears more than once in *Text*.

Constraints

• The length of *Text* will be between 1 and 10^3 .

Case 1
Description: The sample dataset is not actually run on your code.
Input:
panamabananas
Output:
ana
Case 2
Description: The longest repeating sequence in <i>Text</i> overlaps with another instance of itself.
Input:
GAGAGAG
Output:
GAGAG
Case 3
Description: Multiple repeats occur with the same frequency in <i>Text</i> and are the same length.
Input:
AGAGCTCT
Output:
AG or CT (you will not be penalized for having one over the other, but make sure you only output one).
Case 4
Description: Repeats that occur at the beginning and end of <i>Text</i> .
Input:
AAGCTGAA
Output:
AA

Test Cases

Case 5	
Description: There are no repeats in <i>Text</i> .	
Input:	
ABCDEFG	
Output:	
Case 6	

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