✔ 恭喜! 您通过了!

下一项

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1. For the string S = AACGATAGCGGTAGA\$, what will be the contents of array order after SortCharacters?

[0,1,4,6,12,14,2,8,3,7,9,10,13,5,11,15]

[15,14,0,1,12,6,4,2,8,13,3,7,9,10,11,5]

[15,0,1,4,6,12,14,2,8,3,7,9,10,13,5,11]

正确

Correct! First goes '\$', then all 'A's in order, then all 'C's in order, then all 'G's in order, then all 'T's in order.

[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15]

2. For string S = AACGATAGCGGTAGA\$, what will be the contents of the array class after ComputeCharClasses?

1/1分

class after CompateCharClasses?

[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0]

[0,0,1,2,0,3,0,2,1,2,2,3,0,2,0,4]

[1,1,2,3,1,4,1,3,2,3,3,4,1,3,1,0]

正确

Correct! Class 0 is for '\$', class 1 is for 'A', class 2 is for 'C', class 3 is for 'G', class 4 is for 'T'.

[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15]

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3. For string S=AACGATAGCGGTAGA\$, what will be the order of cyclic shifts of length 2 ordered by the second character in ascending order?

正确 Correct!

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4. For string S=AACGATAGCGGTAGA\$, what will be the order of cyclic shifts of length $\bf 2$ after SortDoubled with L=1?

/ 1 */*3

[15,14,0,1,6,12,4,2,8,3,13,7,9,10,5,11]

正确

Correct! Recall that SortDoubled uses a stable sort by first halfs of the doubled cyclic shifts.

[14,0,1,6,12,4,2,8,3,13,7,9,10,5,11,15]

[15,14,0,1,12,6,4,2,8,13,3,7,9,10,11,5]

~

1/1分

5. For string S = AACGATAGCGGTAGA\$, what will be the contents of the array class for the cyclic shifts of length 2 after UpdateClasses?

[0,0,0,0,0,0,0,0,0,0,0,0,0,0,0]

[0,1,2,3,4,5,6,7,2,8,9,5,6,3,10,11] [2,3,7,9,6,14,4,11,8,12,13,15,5,10,1,0]

[2,3,6,7,5,11,4,8,6,9,10,11,4,7,1,0]

正确 Cori

Correct! The classes are [\$A], [A\$], [AA], [AC], [AG, AG], [AT], [CG, CG], [GA, GA], [GC], [GG], [GT], [TA, TA].

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6. For string S = AACGATAGCGGTAGA\$, what will be the suffix array?

1/1分

[15,14,0,1,12,6,4,2,8,13,3,7,9,10,11,5]

Correct! Sorted suffixes:

正确

15 \$ 14 A\$

0 AACGATAGCGGTAGA\$

1 ACGATAGCGGTAGA\$

12 AGA\$

6 AGCGGTAGA\$

2 CGATAGCGGTAGA\$

4 ATAGCGGTAGA\$

8 CGGTAGA\$
13 GA\$

3 GATAGCGGTAGA\$

7 GCGGTAGA\$

9 GGTAGA\$

10 GTAGA\$

11 TAGA\$

5 TAGCGGTAGA\$

[0,1,2,3,4,5,6,7,8,9,10,11,12,13,14,15]

[15,0,1,4,6,12,14,2,8,3,7,9,10,13,5,11]