Assignment Project Exam Help

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**Solution :** See us at the consultations if there are questions with the answers below.

## **Question 1**

Construct the suffix array for string S = panorama\$ using the linear time construction algorithm discussed in the lectures.

What is its BWT?

Ans: 8,7,5,1,6,2,3,0,4. amrpaan\$o

## **Question 2**

Construct the suffix array for string S = **enhancement\$** using the linear time construction algorithm discussed in the lectures.

What is its BWT?

Ans: 11,3,5,6,0,8,2,7,4,1,9,10. thnc\$mneaeen

Question 3

Construct the safe Sirg name of the Petrone Gatween aim he like tipe construction algorithm discussed in the lectures.

Ans: 20, 10, 4, 14, 11, https://eduassistpro.github.io/

**Question 4** In the linear time SA construction algorithm, why do edu\_assist\_pro\_rom\_I positions? Why do

we place L positions in front of other S positions for each bucket?

Ans: (i) To reduce the number of suffixes to be sorted. (ii) Consider the bucket for char x, S positions => the chars after x are larger, whilst L positions => the chars after x are smaller. Therefore, L suffixes are smaller than S suffixes within a bucket.