Curso

Progreso **Fechas** Discusión

☆ Curso / GTx CS1332x Course II Wrap-up / Practice Exam

(3)

finbravilesr >

< Anterior





















Siguiente >

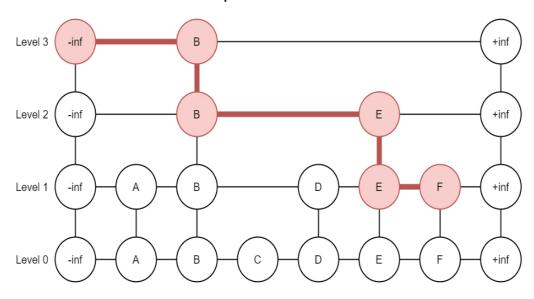
SkipList Diagramming

☐ Marcar esta página

Given the following SkipList, identify the path taken to find (or attempt to find) a particular element. For this question, assume that "looking ahead" to the next node for a comparison does not count in the path. This means only nodes that are traversed should be included in the final output. If the node is in the SkipList, we will "traverse" to it as our final step. Make sure to include the infinity nodes if they are used. Do not include traversing to null if the element is not in the SkipList. Follow the format below and identify the nodes traversed based on each level. The level numbers are labeled in the SkipList diagram.

Answer Format: When you encounter a node, write the level on which the node occurs and the data in the node in the following format: (level #,data). Should you need to include infinity nodes, specify +inf or -inf as the data. Keep in mind that nodes on different levels containing the same data are different nodes. Your answer should be a list of (level #,data) tuples separated by a single space. See below for an example output.

Example Answer Format



The traversed path in red: (3,-inf) (3,B) (2,B) (2,E) (1,E) (1,F)

Notice that there are no spaces inside each individual tuple, however, there is a space separating each tuple. Can you guess which value we are searching for in this example?

SkipList Diagramming

0 puntos posibles (no calificables)

Given the following SkipList below, what is the path that is traversed when searching for 68?

(3,-inf) (3,52) (2,52) (1,52) (1,6

✓ Answer: (3,-inf) (3,52) (2,52) (1,52) (1,63) (0,63)

Given the following SkipList below, what is the path that is traversed when searching for 47?

10 : 0 10 : 0 10 47 (447) /4

© Todos los Derechos están Reservados



edX

Acerca de Afiliados edX para negocios Open edX Carreras Noticias

Legal

Condiciones de Servicio y Código de Honor Política de privacidad Políticas de Accesibilidad Política de marcas Mapa del Sitio Política de cookies Opciones de privacidad

Contáctanos

Centro de ideas Contáctenos Centro de Ayuda Seguridad Kit Multimedia













© 2023 edX LLC. All rights reserved. 深圳市恒宇博科技有限公司 粤ICP备 17044299号-2