

Day82 - April 27th 2024

1. Started my day as usual
2. Learned how to reverse a stack using recursion

Pls find me intuition here :

https://docs.google.com/document/d/1EX9hb7dH-mqaw1kSvBsb1Qchi_EPC9otLBYSHkG3BKI/edit?usp=sharing

The video player on the left displays a hand-drawn diagram illustrating the recursive process of reversing a stack. The diagram shows a stack with elements 1, 2, 3, 4. The process involves popping elements (1, 2, 3) and then inserting them back at the bottom in reverse order (3, 2, 1). The final stack is 4, 3, 2, 1. The video player interface includes a progress bar and a play button.

The Google Docs document on the right is titled "4-27-24_Reverse a stack recursiv...". It contains the following text:

2. What is recursion? To break down the problem into smaller sized and solve them

3. For any recursion problem...we have to handle 2 cases...one is to divide the problem into smaller pieces and other one is to handle boundary cases

4. Basic pseudocode

5. Lets suppose $n = 4$. Now we'll perform reverse on n ...in the reverse first we pop() top element and perform reverse on $(n-1)$

6. But the problem is we have to insert c at the bottom...how can we do that?

7. Here what would be the boundary case?

The document also includes a diagram of a stack with elements 1, 2, 3, 4 and a label "insert" pointing to the bottom of the stack.

3. Ended my day by solving complex SQL question online

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1SELECT * FROM patients

2

3/*

4Start by selecting a question by pressing 'Start' or 'View All Que

5Use the resources and information about the database from the left

6Press the run button to execute the query.

7Question is automatically validated every time you execute the que

8Make your output match the expected output.

9

10

11Keybinds:

12[ctrl + enter]: Execute the SQL

13[ctrl + q]: Auto-format the SQL

14*/

Practice SQL

Query results are outputted here.

Click the run button to execute the query.

ContactLeft MenuRight Menu

Show patient_id, weight, height, isObese from the patients table.

Display isObese as a boolean 0 or 1.

Obese is defined as $\text{weight(kg)} / (\text{height(m)}^2) \geq 30$.

weight is in units kg.

height is in units cm.

Get HintView Solution

Table Info

patients

Hints

Expected Output

patient_id	weight	height	isObese
1	65	156	0
2	76	185	0
3	106	194	0
4	104	191	0
5	10	47	1
6	5	43	0
7	117	180	1
8	105	174	1
9	95	173	1
10	61	157	0

Showing 1 to 100 of 4530 results

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```
1 SELECT * FROM patients
2
3 /*
4 Start by selecting a question by pressing 'Start' or 'View All Questions'.
5 Use the resources and information about the database from the left panel to help.
6 Press the run button to execute the query.
7 Question is automatically validated every time you execute the query.
8 Make your output match the expected output.
9
10 |
11 Keybinds:
12 [ctrl + enter]: Execute the SQL
13 [ctrl + q]: Auto-format the SQL
14 */
15
16 SELECT patient_id,weight,height,
17 CASE WHEN (1.0*weight/((1.0*height/100)*(1.0*height/100)))>=30 THEN 1 ELSE 0 END AS isObese
18 FROM patients
```

patient_id	weight	height	isObese
1	65	156	0
2	76	185	0
3	106	194	0
4	104	191	0
5	10	47	1
6	5	43	0
7	117	180	1
8	105	174	1
9	95	173	1
10	64	173	0

Showing 1 to 100 of 4530 results

You Got The Query Correct

View All Questions

Next Question Easy

Show patient_id, weight, height, isObese from the patients table.

Display isObese as a boolean 0 or 1.

Obese is defined as $\text{weight(kg)/height(m)}^2 \geq 30$.

weight is in units kg.

height is in units cm.

Solutions (1/2)

Previous Next

```
SELECT patient_id, weight, height,
(CASE
WHEN weight/(POWER(height/100,2)) >=
1
ELSE
0
END) AS isObese
FROM patients;
```

Want to help our site? Submit a custom question & solution for it to be added to the question list.