

5.

6pts
Correct

0 pts
Unanswered

0 pts
Incorrect

[Radix tree](6 points)

Insert the following strings (in the given order) into a Radix tree (*radix trie/compact trie*):

vcpj, hzybthtv, hzybth, hzybthai, vcpaj, hzybthce, hzybtheme, wdyodg, hqdcyh, hzybe

After insertion delete the following strings from the tree:

hzybth, hzybtheme

You can explicitly mark the string endings on your paper, but **do not enter the string endings into Edgar**. Each answer requires from you a list of strings which you will be entering as Python lists. **The order in which you enter the strings in your Python lists will not affect the grading for the task.**

We define the **end nodes** as nodes which denote the endings of strings, while the **traversal nodes** are all the rest (**except for the root**).

Questions

- What are the values in the **end nodes** of the tree:
 - After inserting **vcpaj** - (*answer1 variable*)
 - After deleting **hzybth** and **hzybtheme** - (*answer2 variable*)
- What are the values in the **traversal nodes**:

Midterm Practice (405692)

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Submit

```
answer1 = ['i', 'u', 'a', 'u']
answer2 = ['z', 'l']
answer3 = ['c']
```

Additional notes

- The task requires you to enter intermediate results. Read the whole text before you start solving it.
- You are **not allowed to add additional variables, functions, etc.**
 - You can enter the required answer variables
 - You can omit some of the variables
 - If you enter anything additionally all of your tests will fail!

```
1 answer1 = ['aj', 'j', 'ai', 'tv']
2 answer2 = ['aj', 'j', 'e', 'ai', 'tv', 'ce', 'qdcyh']
3 answer3 = ['vcp', 'h', 'hzyb', 'hzybth', 'wdyodg']
4
5
6
```

Run

Save

| Correct | Incorrect | Partial | Unanswered | Score | Score % | Hint |
|---------|-----------|---------|------------|--------------------|---------|---------------|
| | | | | 1.7999999999999998 | 30 | Partial score |

Status: Finished

Started at: November 18th 2024, 9:51:25 pm

Finished at: 9:51:26 pm

Duration: 772 ms

| Language | Compiler options | Compiler output | Message(s) |
|----------------|------------------|-----------------|------------|
| Python (3.8.1) | | | |

Tests(6):

| | | | | |
|----|-----------|---------|----------------------|---|
| 1. | Correct | | | |
| 2. | Incorrect | -30.00% | Test first question | Test first question Hint: Incorrect output |
| 3. | Correct | | | |
| 4. | Incorrect | -25.00% | Test second question | Test second question Hint: Incorrect output |
| 5. | Correct | | | |
| 6. | Incorrect | -15.00% | Test third question | Test third question Hint: Incorrect output |