**PYTHON PROGRAM**

**TASK 1:**

Consider a list (list = []). You can perform the following commands:

1. insert i e: Insert integer **e**  at position **i**.
2. print: Print the list.
3. remove e: Delete the first occurrence of integer **e** .
4. append e: Insert integer  **e** at the end of the list.
5. sort: Sort the list.
6. pop: Pop the last element from the list.
7. reverse: Reverse the list.

Initialize your list and read in the value of **n** followed by  **n** lines of commands where each command will be of the  **7** types listed above. Iterate through each command in order and perform the corresponding operation on your list.

**Input Format**

The first line contains an integer, **n** , denoting the number of commands.  
Each line **i** of the **n**  subsequent lines contains one of the commands described above.

**Constraints**

* The elements added to the list must be *integers*.

**Output Format**

For each command of type print, print the list on a new line.

**Sample Input 0**

12

insert 0 5

insert 1 10

insert 0 6

print

remove 6

append 9

append 1

sort

print

pop

reverse

print

**Sample Output 0**

[6, 5, 10]

[1, 5, 9, 10]

[9, 5, 1]

**TASK 2:**

Given an integer,**n** , and **n** space-separated integers as input, create a tuple, **t**, of those **n** integers. Then compute and print the result of **hash(t)**.

**Note:** [hash()](https://docs.python.org/3/library/functions.html#hash) is one of the functions in the \_\_builtins\_\_ module, so it need not be imported.

**Input Format**

The first line contains an integer, **n** , denoting the number of elements in the tuple.  
The second line contains **n** space-separated integers describing the elements in tuple **t** .

**Output Format**

Print the result of **hash(t)**..

**Sample Input 0**

2

1 2

**Sample Output 0**

3713081631934410656

**TASK 3:**

You have a record of **N** students. Each record contains the student's name, and their percent marks in Maths, Physics and Chemistry. The marks can be floating values. The user enters some integer **N** followed by the names and marks for **N** students. You are required to save the record in a dictionary data type. The user then enters a student's name. Output the average percentage marks obtained by that student, correct to two decimal places.

**Input Format**

The first line contains the integer **N**, the number of students. The next  **N** lines contains the name and marks obtained by that student separated by a space. The final line contains the name of a particular student previously listed.

**Constraints**

* 2<=N<=10
* 0<=MARKS<=100

**Output Format**

Print one line: The average of the marks obtained by the particular student correct to 2 decimal places.

**Sample Input 0**

3

Krishna 67 68 69

Arjun 70 98 63

Malika 52 56 60

Malika

**Sample Output 0**

56.00

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