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NPTEL (<https://swayam.gov.in/explorer?ncCode=NPTEL>) » Programming, Data Structures And Algorithms Using Python (course)

[Announcements \(announcements\)](#)

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Online Test 2, Question 7

Due on 2019-09-26, 22:00 IST

Course
outline

How to access
the portal

Week 1:
Introduction

Week 1 Quiz

Week 2:
Basics of
Python

Week 2 Quiz

Week 2
Programming
Assignment

Week 3: Lists,
inductive
function

Instructions

This is the second of two online programming tests.

- These tests account for 25% of the total evaluation for the course.
- The duration of the test is 2 hours.
- The first test was from 9:30-11:30 am and the second is from 8:00-10:00 pm, on Thursday, 26 September 2019.
- You can attempt either of the tests. The best score will be counted..

Note: In this question, you have to write a standalone Python program. Your program should not print anything except what is asked in the problem description. Do not print any messages or diagnostic information. Your code will be evaluated automatically by comparing your program's output with the expected output, so any spurious output from your program will cause your answer to be reported as wrong. You can assume that the input to your program will be as specified in the question.

There are some "public" test cases where you can see how your program does when you use "Compile and Run". Finally, you should "Submit" your code for evaluation. Your solution will be checked against

definitions,
sorting

Week 3
Programming
Assignment

Week 4:
Sorting,
Tuples,
Dictionaries,
Passing
Functions, List
Comprehension

Week 4 Quiz

Week 4
Programming
Assignment

Week 5:
Exception
handling,
input/output,
file handling,
string
processing

Week 5
Programming
Assignment

Week 6:
Backtracking,
scope, data
structures;
stacks,
queues and
heaps

Week 6 Quiz

Week 7:
Classes,
objects and
user defined
datatypes

Week 7 Quiz

"private" test cases, which you cannot see. You will get a score on 100 based on how many private test cases you solve correctly.

Question 7

Write a Python program that reads input from the keyboard (standard input). The input will consist of some number of lines of text. The input will be terminated by a blank line. The first line will consist of a single word to be interpreted as a *pattern*, after discarding the new line character. Your program should print the *last line* from the second line onward that contains an occurrence of the pattern. If no lines match the pattern, the program should print an empty line. You can assume that the input will have a non-empty pattern line. Recall that for a string *s* and a pattern *p*, *s.find(p)* returns the first position in *s* where *p* occurs, and returns -1 if *p* does not occur in *s*.

For instance, if the input is the following:

```
the
"Spot the mistake
in the following argument",
Jack challenged
1+(-1+1)+(-1+1)+... = (1+ -1)+(1+ -1)+...
so therefore,
1 = 0
??
```

then your program should print the following. Note that the pattern string the is matched by the word therefore.

```
so therefore,
```

Private Test cases used for evaluation		Input	Expected Output	Actual Output	Status
Test Case 1		giraffe US playwright Edward Albee, the author of Who's Afraid of Virginia Woolf?, has died aged 88.		NA	Passed

**Week 8:
Dynamic
programming,
wrap-up**

**Week 8
Programming
Assignment**

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**Online
Programming
Test - Sample**

**Online
Programming
Test 1, 26 Sep
2019, 09:30-
11:30**

**Online
Programming
Test 2, 26 Sep
2019, 20:00-
22:00**

- Online Test 2, Question 1
(/noc19_cs40/progassignment?name=121)
- Online Test 2, Question 2
(/noc19_cs40/progassignment?name=122)
- Online Test 2, Question 3
(/noc19_cs40/progassignment?name=123)
- Online Test 2, Question 4
(/noc19_cs40/progassignment?name=124)
- Online Test 2, Question 5

Albee's assistant said he died on Friday at his home on Long Island near New York. No cause of death was given. A three-time Pulitzer Prize winner, he was arguably America's greatest living playwright after the deaths of Arthur Miller and August Wilson in 2005, Albee was awarded Pulitzers for *A Delicate Balance*, *Seascape* and *Three Tall Women*. Often bleakly humorous, his plays explored the darker sides of marriage, religion, raising children, and American life.

<div> <div>(/noc19_cs40/progassignment?name=125)</div> <div> <div>● Online Test 2, Question 6 (/noc19_cs40/progassignment?name=126)</div> <div>● Online Test 2, Question 7 (/noc19_cs40/progassignment?name=127)</div> </div> <div> <div>● Online Test 2, Question 8 (/noc19_cs40/progassignment?name=128)</div> <div>● Online Programming Test 2, 26 Sep 2019, 20:00-22:00 (unit?unit=111&lesson=129)</div> </div> </div>	<div>Test Case 2</div>	<div> <div>he</div> <div>The same year he was awarded a National Medal of the Arts by then-president Bill Clinton. Albee continued to write into his 70s, and 2008 saw the premiere of a new play, Me, Myself and I, about identical twins. A few years ago, before undergoing major surgery, Albee penned a short statement to be published at the time of his death: "To all of you who have made my being alive so wonderful, so exciting and so full, my thanks and all my love," he wrote.</div> </div>	<div>he wrote.\n</div>	<div>he wrote.\n</div>	<div>Passed</div>
	<div>Test Case 3</div>	<div> <div>sea</div> <div>The sea-ice extent on 10 September st</div> </div>	<div>Record global land and sea surface temperatures</div>	<div>Record global land and sea surface temperatures</div>	<div>Passed</div>

ood at 4.14 million sq km, some way short of the 3.39 million sq km record low in 2012. Arctic sea-ice cover grows each autumn and winter, and shrinks each spring and summer. It has long been regarded as a sensitive indicator of change to the Earth's climatic system. The ice extent has been tracked by the US National Snow and Ice Data Center (NSIDC) in Boulder, Colorado, using satellite measurements. However, the centre cautioned that the figures were preliminary, adding that changing winds could still push the ice extent lower. Ted Scambos, NSIDC le

in 2015 that
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in 2015 that
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ad scientist, commented: "It really suggests that in the next few years, with more typical warmer conditions, we will see some very dramatic further losses." This year's minimum is seen as something of a surprise as scientists believed that the low atmospheric pressure and cloudy skies in June and July had slowed down the melt. "It's pretty remarkable that this year's sea-ice minimum extent ended up the second lowest, after how the melt progressed in June and July," said Walt Meier, a sea ice scientist with NASA's Goddard Space Flight Center. "June and July a

re usually key months for melt because that's when you have 24 hours a day of sunlight -

and this year we lost melt momentum during those two months."

Record global land and sea surface temperatures in 2015 that continued to shatter records well into 2016 had led many to believe that the Arctic melt would reach a new low mark this year. But some scientists, including experts from Reading

University in the UK, argued that their analysis of melt ponds on

ice floes indicated that 2016 would not beat 2012. While trying

for the second lowest minimum in the satellite er

a, this year's figure is in fact well above the 2012 melt, which saw the ice cover fall to 3.41 million sq km (1.32 million sq mi) - 50% lower than the 1979-2000 average.

Test Case 4

Tesla and its former business partner MobilEye have traded more angry remarks over the safety of the electric vehicle's Autopilot system. MobilEye executive Amnon Shashua had said the carmaker had "pushed the envelope" on safety in a bid to extend its reach. Tesla said MobilEye had tried to stop it working on its own system. Autopilot has been

Tesla CEO Elon Musk announced a series of new safety changes

Tesla CEO Elon Musk announced a series of new safety changes

Passed

en under scrutiny since a fatal crash in

May caused by the technology missing a lorry. The two had worked

on the system together but stopped the partnership in July.

"Tesla has been developing its own vision capability in-house for

some time with the goal of accelerating performance improvements.

"After learning that Tesla would be deploying this product, MobilEye attempted to force Tesla to discontinue this

development, pay them more, and use their products in future hardware," said a Tesla spokeswoman.

"When Tesla refused to cancel its own vision development ac

tivities and plans for deployment, MobilEye discontinued hardware support for future platforms and released public statements implying that this discontinuance was motivated by safety concerns." She also reiterated that the Autopilot feature is not supposed to replace the vehicle's human driver. "At no time has Tesla ever said or implied that Autopilot makes a car autonomous or 'self-driving' any more than autopilot on a plane, after which it is named, makes a plane self-flying," she said. Hands-on MobilEye has now issued a further statement challenging

ng Tesla's latest response.

It said it had "little knowledge" of Tesla's in-house product.

"Tesla's response to the May 7 crash, wherein the company shifted

blame to the camera, and later corrected and shifted blame to the

radar, indicated to Mobileye that Mobileye's relationship with

Tesla could not continue," it said.

It said the two firms had

clashed over whether to enable Autopilot to have a "hands-free"

function, with an exchange of emails taking place in May 2015.

"After a subsequent face-to-face meeting, Tesla's CEO confirmed

that activation of Autopilot would be 'hands-on'. Despite this confirmation, Autopilot was rolled out in late 2015 with a hands-free activation mode," the statement reads. Last Sunday, Tesla CEO Elon Musk announced a series of new safety changes which included Autopilot repeatedly telling drivers to keep their hands on the wheel. If they refuse, the system will switch off until the car is parked.

Due Date Exceeded.

4 out of 4 tests passed.

You scored 100.0/100.

Your last recorded submission was :

```
1 lines = []
2 while True:
3     line = input()
4     if line:
5         lines.append(line)
6     else:
7         break
8 pattern = lines[0]
```

```
9 new_line = []
10 for line in lines[1:]:
11     if pattern in line:
12         new_line.append(line)
13
14 print(new_line[-1])
```