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

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Online Test 2 Question 7

Due on 2020-12-01, 22:00 IST

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,
```

Sample Test Cases

Input	Output

Test Case 1	giraffe US playwright Edward Albee, the author of Who's Afraid of Virginia Woolf?, has died aged 88. 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.	
Test Case 2	he 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.	he wrote.
Test Case 3	sea The sea-ice extent on 10 September stood 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	Record global land and sea surface temperatures in 2015 that

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 lead 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 are 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 tying for the second lowest minimum in the satellite era, 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 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 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 activities 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'	Tesla CEO Elon Musk announced a series of new safety changes

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 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.

Test Case 5

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

so therefore,

| Test Case 6 | Albee
US playwright Edward Albee, the author
of Who's Afraid of Virginia Woolf?, has
died aged 88. 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. | Wilson in 2005, Albee was awarded |

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.