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



Course outline

How does an NPTEL online course work? ()

Week 1 : Introduction ()

Week 1 Quiz ()

Week 2: Basics of Python ()

Week 2 Quiz ()

Week 2 Programming Assignment ()

Week 3: Lists, inductive

Online Test 2, Question 7

Due on 2021-03-09, 22:00 IST

Question 7

Write a Python program that reads input from the keyboard (standard input). The input will consist of an even number of lines of text. The input will be terminated by a blank line. Suppose there are $2n$ lines of input. Your program should print out the last n lines of the input, i.e., the second half of the input, followed by the first n lines, i.e., the first half of the input.

For instance, if the input is the following:

```
our dear friend,
let's eat
```

then the output should be:

```
let's eat
our dear friend,
```

Sample Test Cases

Input

Output

function definitions, sorting ()			
Week 3 Programming Assignment ()			
Week 4: Sorting, Tuples, Dictionaries, Passing Functions, List Comprehension ()	Test Case 1	<p>Despite the negative connotations surrounding the colloquial term deepfakes (people don't usually want to be associated with the word "fake"), the technology is increasingly being used commercially. More politely called AI-generated videos, or synthetic media, usage is growing rapidly in sectors including news, entertainment and education, with the technology becoming increasingly sophisticated. One of the early commercial adopters has been Synthesia, a London-based firm that creates AI-powered corporate training videos for the likes of global advertising firm WPP and business consultancy Accenture.</p>	<p>news, entertainment and education, with the technology becoming increasingly sophisticated. One of the early commercial adopters has been Synthesia, a London-based firm that creates AI-powered corporate training videos for the likes of global advertising firm WPP and business consultancy Accenture. Despite the negative connotations surrounding the colloquial term deepfakes (people don't usually want to be associated with the word "fake"), the technology is increasingly being used commercially. More politely called AI-generated videos, or synthetic media, usage is growing rapidly in sectors including</p>
Week 4 Quiz ()			
Week 4 Programming Assignment ()			
Week 5: Exception handling, input/output, file handling, string processing ()	Test Case 2	<p>"This is the future of content creation," says Synthesia chief executive and co-founder Victor Riparbelli. To make an AI-generated video using Synthesia's system you simply pick from a number of avatars, type in the word you wish for them to say, and that is pretty much it.</p>	<p>Synthesia's system you simply pick from a number of avatars, type in the word you wish for them to say, and that is pretty much it.</p> <p>"This is the future of content creation," says Synthesia chief executive and co-founder Victor Riparbelli. To make an AI-generated video using</p>
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 ()		
Week 8: Dynamic programming, wrap-up ()	Test Case 3	Mr Riparbelli says this means that global firms can very easily make videos in different languages, such as for in-house training courses. "Let's say you have 3,000 warehouse workers in North America," he says. "Some of them speak English, but some may be more familiar with Spanish. "If you have to communicate complex information to them, a four-page PDF is not a great way. It would be much better to do a two or three-minute video, in English and Spanish.
Week 8 Programming Assignment ()		be more familiar with Spanish. "If you have to communicate complex information to them, a four-page PDF is not a great way. It would be much better to do a two or three-minute video, in English and Spanish. Mr Riparbelli says this means that global firms can very easily make videos in different languages, such as for in-house training courses. "Let's say you have 3,000 warehouse workers in North America," he says. "Some of them speak English, but some may
Text Transcripts ()		
Books ()		
Download Videos ()		
Online Programming Test - Sample ()		
Online Programming Test 1, 01 Dec 2020, 10:00-12:00 ()		
Online Programming Test 2, 01 Dec 2020, 20:00-22:00 ()		
Online Programming Test 1, 09 Mar 2021, 10:00-12:00 ()		

**Online
Programming
Test 2, 09
Mar 2021,
20:00-22:00
()**

- Online Test 2, Question 1 (/noc20_cs26/progassignment?name=160)
- Online Test 2, Question 2 (/noc20_cs26/progassignment?name=161)
- Online Test 2, Question 3 (/noc20_cs26/progassignment?name=162)
- Online Test 2, Question 4 (/noc20_cs26/progassignment?name=163)
- Online Test 2, Question 5 (/noc20_cs26/progassignment?name=164)
- Online Test 2, Question 6 (/noc20_cs26/progassignment?name=165)
- **Online Test 2, Question 7 (/noc20_cs26/progassignment?name=166)**
- Online Test 2, Question 8 (/noc20_cs26/progassignment?name=167)

Test
Case
4
Test
Case
5

"If you had to record every single one of those videos, that's a massive piece of work. Now we can do that for [little] production costs, and whatever time it'll take someone to write the script. That pretty much exemplifies how the technology is used today." Mike Price, the chief technology officer of ZeroFox, a US cyber-security company that tracks deepfakes, says their commercial use is "growing significantly year over year, but exact numbers are difficult to pin down". However, Chad Steelberg, chief executive of Veritone, a US AI technology provider, says that the increasing concern about malicious deepfakes is holding back investment in the technology's legitimate, commercial use. "The term deepfakes has definitely had a negative response in terms of capital investment in the sector," he says. "The media and consumers, rightfully so, can clearly see the risks associated. "It has definitely hindered corporations as well as investors from piling into the technology. But I think you are starting to see that crack."

Line one
Line two
Line three
Line four

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Line three
Line four
Line one
Line two

Test
Case
6

A few months ago, millions of TV viewers across South Korea were watching the MBN channel to catch the latest news. At the top of the hour, regular news anchor Kim Joo-Ha started to go through the day's headlines. It was a relatively normal list of stories for late 2020 - full of Covid-19 and pandemic response updates. Yet this particular bulletin was far from normal, as Kim Joo-Ha wasn't actually on the screen. Instead she had been replaced by a "deepfake" version of herself - a computer-generated copy that aims to perfectly reflect her voice, gestures and facial expressions. Viewers had been informed beforehand that this was going to happen, and South Korean media were amazed at how realistic it was, others said they were worried that the real Kim Joo-Ha might lose her job.

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The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.
Sample solutions (Provided by instructor)

```
1 inputlines = []
2 inputline = input()
3 while(inputline):
4     inputlines.append(inputline)
5     inputline = input()
6
7 n = len(inputlines)//2
8 for i in range(n,len(inputlines)):
9     print(inputlines[i])
10 for i in range(n):
11     print(inputlines[i])
12
```

