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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 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

Test Case 1	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.	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
Test Case 2	"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.	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. "This is the future of content creation," says Synthesia chief executive and co-founder Victor Riparbelli. To make an AI-generated video using

Test Case 3

```
Mr Riparbelli says this means
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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
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Test Case 4

"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."

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." "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

Test Case 5

```
Line one
Line two
Line three
Line four
```

```
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
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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
```