Frances Endencia

1MillionWomenToTech July 19, 2018

Hackathon Week 1

#1 In a 11 x 11, with x to represent land and o to represent water, draw the continent you live in

North America

```
>>>
>>> # North America
... water = 'o'
>>> land = 'x'
>>> print('o o o o o o x o o o o\no x x o o o o o o o o\no o x o o x x x x x o\no o o x x x o x x o o\no o x x x x x x x
 x o\no o o x x x x x o o o\no o o x x x x o o o o\no o x x x x x x o o o\no o x x x x x x o o o\no o o x o o o o x o o\
no o o o x o o o o o o')
o o o o o o x o o o o
o x x o o o o o o o o
o o x o o x x x x x o
o o o x x x o x x o o
o o x x x x x x x x o
o o o x x x x x o o o
o o o x x x x o o o o
o o x x x x x x o o o
o o x x x x x x o o o
o o o x o o o o x o o
o o o o x o o o o o o
>>>
```

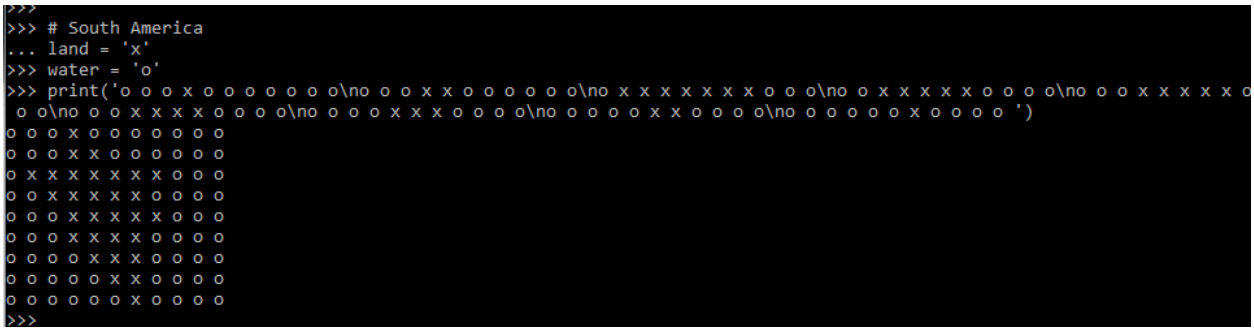
Bonus questions

North America's continent has 9361.791 square miles or 93 x 10(-5). This program has 46 tiles(x) that represent land (9361/2 = 46 x 10 exp -2) and the (o) represent water in a 11 x 11 dimension (11 rows and 11 columns)

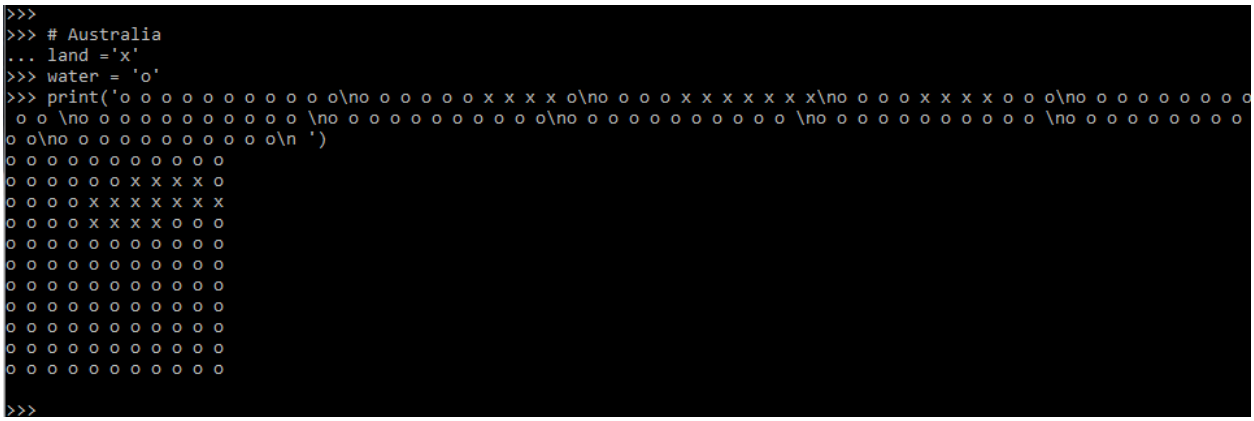
Asia has 17139.445 square miles or 171 x 10 exp (-5). For this illustration 171 /2 = 85 tiles in the 11 x 11 dimension one tile represents

```
>>> # Asia Continent
... water = 'o'
>>> land = 'x'
>>> print('o x x x x x x x x x x\no x x x x x x x x x o\no o x x x x x x x o x\no o x x x x x x x o x\no o x x x x x x o
 o x\no o o o x x x x o x x\no x o o x x x x o o o\no x x o x x x x o o o\no x x x x x o o x x o\no o o x x x x o x x o\
no o o o x x o x x o x')
o x x x x x x x x x x
o x x x x x x x x x o
o o x x x x x x x o x
o o x x x x x x x o x
o o x x x x x x o o x
o o o o x x x x o x x
o x o o x x x x o o o
o x x o x x x x o o o
o x x x x x o o x x o
o o o x x x x o x x o
o o o o x x o x x o x
>>>
```

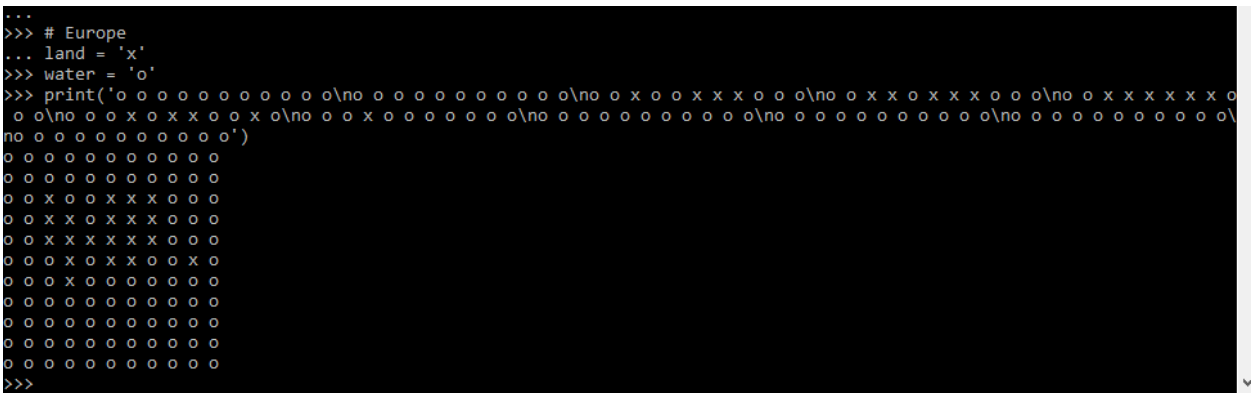
South America has 6880.706 square miles or 68 x 10 exp(-5). For this illustration 68/2 = 34 tiles in 11 x 11 dimension one tile represents



Australia has 2967.124 square miles or 29 x 10 exp(-5). For this illustration 29 /2 = 15 tiles in 11 x11 dimension one tile represents



Europe has 3997.929 square miles^2


...
>>> # Europe
... land = 'x'
>>> water = 'o'
>>> print('o o o o o o o o o o\no o o o o o o o o o\no o x o o x x x o o o\no o x x o x x x o o o\no o x x x x x x x o\n o o\no o o x o x x o o x o\no o o x o o o o o o o\no o o o o o o o o o o\no o o o o o o o o o o\no o o o o o o o o o o\no o o o o o o o o o o\no o o o

```
>>>
>>> #Africa
... land = 'x'
>>> water = 'o'
>>> print('o o o o o x x o o o o o o\no o x x x x x x o o o\no x x x x x x x x o o\nx x x x x x x x x x o\nx x x x x x x x x x o\no x x x x x x x x x x o\no x x x x x x x x x x o\no x
```

```
>>>
>>> from random import randint
>>> print(randint(1, 121))
89
>>> print(randint(1, 121))
98
>>> print(randint(1, 121))
105
>>> print(randint(1,-121))
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "C:\Users\fende\AppData\Local\Programs\Python\Python37-32\lib\random.py", line 222, in randint
    return self.randrange(a, b+1)
  File "C:\Users\fende\AppData\Local\Programs\Python\Python37-32\lib\random.py", line 200, in randrange
    raise ValueError("empty range for randrange() (%d,%d, %d)" % (istart, istop, width))
ValueError: empty range for randrange() (1,-120, -121)
>>> print(randint(-1,121))
18
>>> print(randint(-1,-121))
Traceback (most recent call last):
  File "<stdin>", line 1, in <module>
  File "C:\Users\fende\AppData\Local\Programs\Python\Python37-32\lib\random.py", line 222, in randint
    return self.randrange(a, b+1)
  File "C:\Users\fende\AppData\Local\Programs\Python\Python37-32\lib\random.py", line 200, in randrange
    raise ValueError("empty range for randrange() (%d,%d, %d)" % (istart, istop, width))
ValueError: empty range for randrange() (-1,-120, -119)
>>>
```

Ilona, I was not sure what “fastest program meant- not sure if you meant the speed test or continent economic improvement” So, here is,

Africa is Now the Fastest Growing Continent in the World

11/07/2013

Share |

Africa is now the fastest growing continent in the world, the African Development Bank’s **Annual Development Effectiveness Review 2013** states.

The report, just published, says this growth has been driven mainly by improved economic governance on the continent and the private sector.

“Africa’s economic growth could not have happened without major improvement in economic governance.

More than two-thirds of the continent has registered overall improvement in the quality of economic governance in recent years, with increased capacity to deliver economic opportunity and basic services,” it says.

The report says the costs of starting a business, for instance, have fallen by more than two-thirds over the past seven years, while delays for starting a business have been halved.

It says the private sector has become the main engine of growth as the continent continues to improve its business climate. This growth is increasingly driven by internal demand.

“This progress has brought increased levels of trade and investment, with the annual rate of foreign investment increasing fivefold since 2000. For the future, improvements in such areas as access to finance and quality of infrastructure should help improve Africa’s global competitiveness,” the report states.

Greater regional economic integration on the continent, it says, will improve the prospects for growth by enabling African producers to build regional value chains, achieve economies of scale, increase intra-African trade and become internationally competitive. Recent years have seen progress in this direction, including the launch of regional organizations to manage regional power pools and water basins.

However, Africa's inadequate infrastructure remains a major constraint to the continent's economic growth and development. The report urges greater investment in this area. "African currently invests just four per cent of its collective GDP in infrastructure, compared with China's 14 per cent," it says. "While sustainable infrastructure entails significant up-front investments, it will prove cost-effective in the longer term."

According to the ADER, growth in the continent's low-income countries exceeded 4.5 per cent in 2012 and is forecast to remain at above 5.5 in the next few years. Africa's collective gross domestic product (GDP) reached US $953 while the number of middle income countries on the continent rose to 26, out of a total of 54.

"Strong economic growth has made major inroads into income poverty. The share of the population living below the poverty line has fallen from 51 per cent to 39 per cent. Some 350 million Africans now earn between US $2 and US $20 a day, and the middle class is increasingly becoming an active consumer market," the report says.

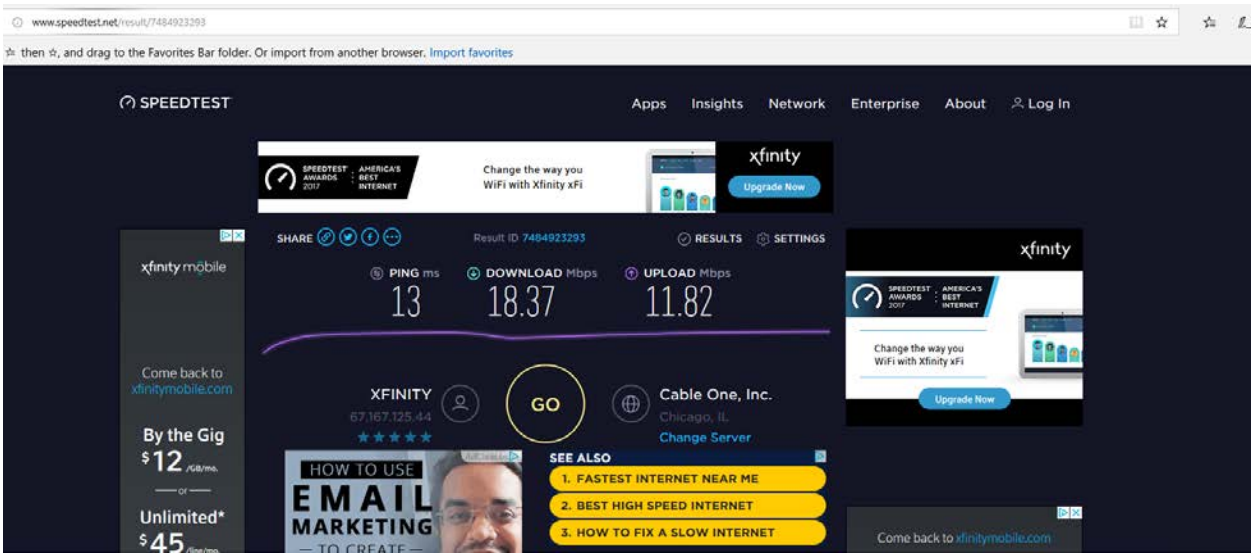
It, however, cautions that despite this growth, substantial disparities still exist on the African continent. "The challenge will be to address continuing inequality so that all Africans, including those living in isolated rural communities, deprived neighbourhoods, and fragile states are able to benefit from this economic growth. Pursuing an inclusive and sustainable growth agenda is key to reducing these inequalities," the report says.

The report adds: "The exploitation of oil and minerals has become a major source of economic growth for a growing number of African countries, but these assets need to be effectively managed and used in an accountable and transparent manner."

Published since 2011, the ADER provides an overview of Africa's development achievements and trends, and reviews the African Development Bank's contribution to development results on the continent.

Reference: https://www.afdb.org/en/news-and-events/africa-is-now-the-fastest-growing-continent-in-the-world-12107/

Speedtest


www.speedtest.net/result/7484923293
then ☆, and drag to the Favorites Bar folder. Or import from another browser. Import favorites
SPEEDTEST
Apps
Insights
Network
Enterprise
About
Log In
SPEEDTEST AWARDS 2017 : AMERICA'S BEST INTERNET
Change the way you WiFi with Xfinity xFi
xfinity
Upgrade Now
SHARE
Result ID 7484923293
RESULTS
SETTINGS
PING ms
13
DOWNLOAD Mbps
18.37
UPLOAD Mbps
11.82
xfinity mobile
Come back to xfinitymobile.com
By the Gig
$12 /GB/mo.
— or —
Unlimited*
$45
XFINITY
67.167.125.44
GO
Cable One, Inc.
Chicago, IL
Change Server
HOW TO USE
EMAIL
MARKETING
SEE ALSO
1. FASTEST INTERNET NEAR ME
2. BEST HIGH SPEED INTERNET
3. HOW TO FIX A SLOW INTERNET
xfinity
SPEEDTEST AWARDS 2017 : AMERICA'S BEST INTERNET
Change the way you WiFi with Xfinity xFi
Upgrade Now
Come back to xfinitymobile.com