

Results of the test cases

Test Case 1: 'snow leopard'

ab3900@brussels:~/ADBProject1\$ python main.py

JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs 1.0 'snow leopard'

=====

```
https://api.datamarket.azure.com/Bing/Search/Web?Query=%27snow%20leopard%27&$top=10&$format=json
```

Parameters:

Client key = JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs

Query = snow leopard

Precision = 0.9

Url:

```
https://api.datamarket.azure.com/Bing/Search/Web?Query=%27snow%20leopard%27&$top=10&$format=json
```

Total no of results : 10

Bing Search Results:

=====

Result 1

[

URL: http://en.wikipedia.org/wiki/Snow_Leopard

Title: Snow leopard - Wikipedia, the free encyclopedia

Summary: Snow leopards are slightly smaller than the other big cats but, like them, exhibit a range of sizes, generally weighing between 27 and 55 kg (60 and 121 lb), with an ...

]

Relevant (Y/N)?: n

Result 2

[

URL: <http://animals.nationalgeographic.com/animals/mammals/snow-leopard/>

Title: Snow Leopards, Snow Leopard Pictures, Snow Leopard Facts ...

Summary: Learn all you wanted to know about snow leopards with pictures, videos, photos, facts, and news from National Geographic.

]

Relevant (Y/N)?: n

Result 3

[

URL: <http://store.apple.com/us/product/MC573Z/A/mac-os-x-106-snow-leopard>

Title: Mac OS X 10.6 Snow Leopard - Apple Store (U.S.)

Summary: If you need to purchase Mac OS X 10.6 Snow Leopard, you may order it from this page. The most current version of OS X is OS X 10.9 Mavericks.

]

Relevant (Y/N)?: y

Result 4

[

URL: <http://www.defenders.org/snow-leopard/basic-facts>

Title: Snow Leopard | Basic Facts About Snow Leopards | Defenders ...

Summary: Learn about the size, diet, population, range, behavior and other fascinating facts about snow leopards.

]

Relevant (Y/N)?: n

Result 5

[

URL: <http://worldwildlife.org/species/snow-leopard>

Title: Snow Leopard | Species | WWF - World Wildlife Fund

Summary: The snow leopard's powerful build allows it to scale great steep slopes with ease. Its hind legs give the snow leopard the ability to leap six times the length of ...

]

Relevant (Y/N)?: n

Result 6

[

URL: <http://animals.sandiegozoo.org/animals/snow-leopard>

Title: Snow Leopard | San Diego Zoo Animals

Summary: So how do snow leopards live at high altitudes? They keep mainly to cliffs and rocky slopes, below the permanent snow line. Snow leopards have a relatively small head ...

]

Relevant (Y/N)?: n

Result 7

[

URL: <http://www.apple.com/support/snowleopard/>

Title: Apple - Support - Snow Leopard

Summary: Get help with installing and using Snow Leopard, setting up email accounts, connecting to the Internet, troubleshooting, and much more.

]

Relevant (Y/N)?: y

Result 8

[

URL: <http://www.snowleopard.org/>

Title: Snow Leopard Trust - Official Site

Summary: Located in Seattle, they work to protect the endangered snow leopard and its Central Asian habitat.

]

Relevant (Y/N)?: n

Result 9

[

URL: <http://www.apple.com/osx/>

Title: OS X - Official Site

Summary: The new OS X is loaded with new features, apps, and technologies that give you the power to do more. And make your Mac even more energy-efficient.

]

Relevant (Y/N)?: y

Result 10

[

URL: <http://www.amazon.com/s?ie=UTF8&page=1&rh=i%3Aaps%2Ck%3Asnow%20leopard>

Title: Amazon.com: snow leopard

Summary: Mac OS X Server v10.6.3 Snow Leopard - Unlimited Client License by Apple Mac OS X 10.6 "Snow Leopard" Server Unlimited MC190Z/A (DVD-ROM) - Mac OS X Intel

]

Relevant (Y/N)?: y

=====

FEEDBACK SUMMARY

Query snow leopard

Precision from user relevance feedback - 0.4

Target Precision - 1.0
Indexing results
Augmented by x os
Determining the best order of terms

=====

[https://api.datamarket.azure.com/Bing/Search/Web?Query=%27os%20x%20snow%20leopard%27&\\$top=10&\\$format=json](https://api.datamarket.azure.com/Bing/Search/Web?Query=%27os%20x%20snow%20leopard%27&$top=10&$format=json)

Parameters:

Client key = JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs

Query = os x snow leopard

Precision = 1.0

Url:

[https://api.datamarket.azure.com/Bing/Search/Web?Query=%27os%20x%20snow%20leopard%27&\\$top=10&\\$format=json](https://api.datamarket.azure.com/Bing/Search/Web?Query=%27os%20x%20snow%20leopard%27&$top=10&$format=json)

Total no of results : 10

Bing Search Results:

=====

Result 1

[
URL: <http://www.apple.com/support/snowleopard/>

Title: Apple - Support - Snow Leopard

Summary: Get help with installing and using Snow Leopard, setting up email accounts, connecting to the Internet, troubleshooting, and much more.

]
Relevant (Y/N)?: y

Result 2

[
URL: http://en.wikipedia.org/wiki/Mac_OS_X_Snow_Leopard

Title: Mac OS X Snow Leopard - Wikipedia, the free encyclopedia

Summary: Mac OS X Snow Leopard (version 10.6) is the seventh major release of Mac OS X, Apple's desktop and server operating system for Macintosh computers. Snow Leopard was ...

]
Relevant (Y/N)?: y

Result 3

[
URL: <http://www.apple.com/osx/>

Title: OS X - Official Site

Summary: The new OS X is loaded with new features, apps, and technologies that give you the power to do more. And make your Mac even more energy-efficient.

]
Relevant (Y/N)?: y

Result 4

[
URL: <http://www.amazon.com/version-Leopard-computer-processor-required/dp/B001AMHWP8>

Title: Amazon.com: Mac OS X version 10.6.3 Snow Leopard (Mac ...

Summary: Mac OS X Snow Leopard is an even more powerful and refined version of the world's most advanced operating system. In ways big and small, it gets faster, more ...

]
Relevant (Y/N)?: y

Result 5

[
URL: <http://store.apple.com/us/product/MC573Z/A/mac-os-x-106-snow-leopard>

Title: Mac OS X 10.6 Snow Leopard - Apple Store (U.S.)

Summary: If you need to purchase Mac OS X 10.6 Snow Leopard, you may order it from this page. The most current version of OS X is OS X 10.9 Mavericks.

]

Relevant (Y/N)?: y

Result 6

[

URL: http://www.ebay.com/sch/i.html?_nkw=os+x+snow+leopard

Title: os x snow leopard | eBay - Electronics, Cars, Fashion ...

Summary: Find great deals on eBay for os x snow leopard and os x lion. Shop with confidence.

]

Relevant (Y/N)?: y

Result 7

[

URL: http://download.cnet.com/Apple-Mac-OS-X-Snow-Leopard/3000-18513_4-90306.html

Title: Apple Mac OS X Snow Leopard for Mac - Free download and ...

Summary: Sneaking in a few days before its promised September release, the tune-up for Mac OS X Leopard costs \$29 for current Leopard users, and packs just enough ...

]

Relevant (Y/N)?: y

Result 8

[

URL: http://www.ebay.com/sch/i.html?_nkw=os+x+leopard

Title: os x leopard | eBay - Electronics, Cars, Fashion ...

Summary: Find great deals on eBay for os x leopard and os x leopard 10.5. Shop with confidence.

]

Relevant (Y/N)?: y

Result 9

[

URL: <http://www.cnet.com/mac-os-x-snow-leopard/>

Title: Mac OS X - Apple Mac Lion and Snow Leopard reviews and ...

Summary: CNET's comprehensive Mac OS X Lion and OS X Snow Leopard coverage: Get in-depth analysis of Lion's new features, how much it will cost you, what you'll ...

]

Relevant (Y/N)?: y

Result 10

[

URL:

<http://www.amazon.com/s?ie=UTF8&page=1&rh=i%3Aaps%2Ck%3Asnow%20leopard%20mac%20os%20x%2010.6>

Title: "snow leopard mac os x 10.6" - Amazon.com: Online Shopping ...

Summary: Amazon Cloud Player for Mac [Download] by Amazon Digital Services Inc. (Software Download - Oct. 29, 2013) - Mac OS X 10.6 Snow Leopard / 10.7 Lion / 10.8 Mountain Lion

]

Relevant (Y/N)?: y

FEEDBACK SUMMARY

Query os x snow leopard

Precision from user relevance feedback - 1.0

Target Precision - 1.0

Desired precision reached, done

ab3900@brussels:~/ADBProject1\$

Test Case 2: gates

ab3900@brussels:~/ADBProject1\$ python main.py

JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs 0.9 gates

=====

[https://api.datamarket.azure.com/Bing/Search/Web?Query=%27gates%27&\\$top=10&\\$format=json](https://api.datamarket.azure.com/Bing/Search/Web?Query=%27gates%27&$top=10&$format=json)

Parameters:

Client key = JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs

Query = gates

Precision = 0.9

Url:

[https://api.datamarket.azure.com/Bing/Search/Web?Query=%27gates%27&\\$top=10&\\$format=json](https://api.datamarket.azure.com/Bing/Search/Web?Query=%27gates%27&$top=10&$format=json)

Total no of results : 10

Bing Search Results:

=====

Result 1

[

URL: <http://gates.com/>

Title: Gates - Powering Progress? in belts, hose & hydraulics

Summary: Gates Corporation is Powering Progress? in the Oil & Gas, Energy, Mining, Marine, Agriculture, Transportation and Automotive Industries.

]

Relevant (Y/N)?: n

Result 2

[

URL: http://www.gatecrafters.com/design_your_gates.aspx

Title: Driveway Gates | Automatic Gates | Electric Gates

Summary: Driveway Gates - Automatic Gates The high-quality driveway gates from GateCrafters.com come in a wide variety of options to ...

]

Relevant (Y/N)?: n

Result 3

[

URL: <http://www.gates.com/automotive.cfm>

Title: Automotive | Gates Corporation

Summary: Gates offers the most complete line of original equipment products, including automotive hoses, belts & accessories for the automotive aftermarket.

]

Relevant (Y/N)?: n

Result 4

[

URL: <http://www.amazon.com/s?ie=UTF8&page=1&rh=i%3Aaps%2Ck%3Agates>

Title: Amazon.com: gates

Summary: "gates" Showing 1 - 16 of 334,134 Results. Choose a Department to enable sorting. 1. Duty: Memoirs of a Secretary at War by Robert Michael Gates (Hardcover - Jan ...

]

Relevant (Y/N)?: n

Result 5

[

URL: <http://www.toysrus.com/category/index.jsp?categoryId=3243470>

Title: Safety Gates - Health & Safety - Babies "R" Us

Summary: Safety gates available at Babies'R'Us with the best prices and top selections! Shop now

for quality, safe and durable baby safety gates and accessories!

]

Relevant (Y/N)?: n

Result 6

[

URL: http://en.wikipedia.org/wiki/Bill_Gates

Title: Bill Gates - Wikipedia, the free encyclopedia

Summary: William Henry "Bill" Gates III (born October 28, 1955) is an American business magnate, investor, programmer, inventor and philanthropist. Gates is the ...

]

Relevant (Y/N)?: y

Result 7

[

URL: <http://dictionary.reference.com/browse/gates>

Title: Gates | Define Gates at Dictionary.com

Summary: gate 1 (?e?t) ?n: 1. a movable barrier, usually hinged, for closing an opening in a wall, fence, etc: 2. an opening to allow passage into or out of an enclosed place

]

Relevant (Y/N)?: n

Result 8

[

URL: <http://en.wikipedia.org/wiki/Gate>

Title: Gate - Wikipedia, the free encyclopedia

Summary: Types . Types of gates include: Baby gate; City gate; Hampshire gate; Kissing gate; Lych gate; Mon (architecture), Japanese gates of many varieties including the Torii

]

Relevant (Y/N)?: n

Result 9

[

URL: <http://www.townofgates.org/>

Title: Town of Gates - A Community For All People

Summary: Gates, New York is a dynamic town in Monroe County with an interesting past and a bright future. The town was incorporated in 1813 and was the last remnants of ...

]

Relevant (Y/N)?: n

Result 10

[

URL: <http://www.microsoft.com/en-us/news/exec/billg/>

Title: Bill Gates: Founder and Technology Advisor

Summary: Updated: Feb. 4, 2014. William (Bill) H. Gates is founder, technology advisor and board member of Microsoft Corporation, the worldwide leader in software ...

]

Relevant (Y/N)?: y

=====

FEEDBACK SUMMARY

Query gates

Precision from user relevance feedback - 0.2

Target Precision - 0.9

Indexing results

Augmented by bill

Determining the best order of terms

=====

[https://api.datamarket.azure.com/Bing/Search/Web?Query=%27bill%20gates%27&\\$top=10&\\$format=json](https://api.datamarket.azure.com/Bing/Search/Web?Query=%27bill%20gates%27&$top=10&$format=json)

Parameters:

Client key = JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs

Query = bill gates

Precision = 0.9

Url:

[https://api.datamarket.azure.com/Bing/Search/Web?Query=%27bill%20gates%27&\\$top=10&\\$format=json](https://api.datamarket.azure.com/Bing/Search/Web?Query=%27bill%20gates%27&$top=10&$format=json)

Total no of results : 10

Bing Search Results:

=====

Result 1

[
URL: <http://www.thegatesnotes.com/>

Title: Bill Gates - Official Site

Summary: The debate over education in the United States is getting clouded by myths?especially myths about the academic standards known as Common Core.

]
Relevant (Y/N)?: y

Result 2

[
URL: http://en.wikipedia.org/wiki/Bill_Gates
Title: Bill Gates - Wikipedia, the free encyclopedia

Summary: William Henry "Bill" Gates III (born October 28, 1955) is an American business magnate, investor, programmer, inventor and philanthropist. Gates is the ...

]
Relevant (Y/N)?: y

Result 3

[
URL: <http://www.biography.com/people/bill-gates-9307520>
Title: Bill Gates Biography - Facts, Birthday, Life Story ...

Summary: Biography.com tracks the life and career of Bill Gates, from his early interest in computer programming to his place as founder of Microsoft, the world's largest ...

]
Relevant (Y/N)?: y

Result 4

[
URL: <http://www.microsoft.com/en-us/news/exec/billg/>
Title: Bill Gates: Founder and Technology Advisor

Summary: Updated: Feb. 4, 2014. William (Bill) H. Gates is founder, technology advisor and board member of Microsoft Corporation, the worldwide leader in software ...

]
Relevant (Y/N)?: y

Result 5

[
URL: <http://www.gatesfoundation.org/>
Title: Bill & Melinda Gates Foundation - Official Site

Summary: About the Foundation. Guided by the belief that every life has equal value, the Bill and Melinda Gates Foundation aspires to help all people lead healthy ...

]
Relevant (Y/N)?: y

Result 6

[

URL: <http://www.forbes.com/profile/bill-gates/>

Title: Bill Gates - Forbes - Information for the World's Business ...

Summary: Bill Gates is the wealthiest man in the U.S. (and the world, for that matter), despite past gifts of more than \$28 billion to the Bill & Melinda Gates Foundation.

]

Relevant (Y/N)?: y

Result 7

[

URL: <http://www.imdb.com/name/nm0309540/>

Title: Bill Gates - IMDb

Summary: Bill Gates, Self: Freakonomics. Born William Henry III is an American entrepreneur, business mogul, investor, philanthropist, and widely known as one of the most ...

]

Relevant (Y/N)?: y

Result 8

[

URL: <http://www.huffingtonpost.com/news/bill-gates/>

Title: Bill Gates: Pictures, Videos, Breaking News

Summary: Big News on Bill Gates. Includes blogs, news, and community conversations about Bill Gates.

]

Relevant (Y/N)?: y

Result 9

[

URL: http://topics.nytimes.com/top/reference/timestopics/people/g/bill_gates/index.html

Title: Bill Gates News - The New York Times

Summary: News about Bill Gates. Commentary and archival information about Bill Gates from The New York Times.

]

Relevant (Y/N)?: y

Result 10

[

URL: <http://topics.wsj.com/person/g/bill-gates/685>

Title: Bill Gates - News, Articles, Biography, Photos - WSJ.com

Summary: Chairman and founder, Microsoft Corp. William "Bill" H. Gates is chairman of Microsoft Corp. Subscriber Content Read Preview The Daily Docket: Bill Gates Controlled ...

]

Relevant (Y/N)?: y

=====

FEEDBACK SUMMARY

Query bill gates

Precision from user relevance feedback - 1.0

Target Precision - 0.9

Desired precision reached, done

ab3900@brussels:~/ADBProject1\$

Test case 3 : columbia

ab3900@brussels:~/ADBProject1\$ python main.py

JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs 0.9 columbia

=====

[https://api.datamarket.azure.com/Bing/Search/Web?Query=%27columbia%27&\\$top=10&\\$format=json](https://api.datamarket.azure.com/Bing/Search/Web?Query=%27columbia%27&$top=10&$format=json)

Parameters:

Client key = JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs

Query = columbia

Precision = 0.9

Url:

[https://api.datamarket.azure.com/Bing/Search/Web?Query=%27columbia%27&\\$top=10&\\$format=json](https://api.datamarket.azure.com/Bing/Search/Web?Query=%27columbia%27&$top=10&$format=json)

Total no of results : 10

Bing Search Results:

=====

Result 1

[

URL: <http://www.columbia.com/>

Title: Columbia Sportswear - Official Site

Summary: Shop direct from Columbia Sportswear. Buy Columbia jackets, pants, shirts, fleece, shoes, boots & sweaters. Visit our blog, watch videos & meet our athletes.

]

Relevant (Y/N)?: n

Result 2

[

URL: <http://www.columbia.edu/>

Title: Columbia University - Official Site

Summary: Founded in 1754 as King's College by royal charter, it is the oldest institution of higher learning in the State of New York. Located in New York City and a member of ...

]

Relevant (Y/N)?: y

Result 3

[

URL: [http://en.wikipedia.org/wiki/Columbia_\(name\)](http://en.wikipedia.org/wiki/Columbia_(name))

Title: Columbia (name) - Wikipedia, the free encyclopedia

Summary: Columbia is a historical and poetic name used for the United States of America and is also the name of its female personification. It has inspired the names of many ...

]

Relevant (Y/N)?: n

Result 4

[

URL: <http://columbiasc.net/>

Title: :: Welcome to the City of Columbia ::

Summary: The Columbia City Hall, also known as Old United States Court House and Post Office, was built in 1870. It was listed on the National Register of Historic Places in 1973.

]

Relevant (Y/N)?: n

Result 5

[

URL: http://www.columbia.com/on/demandware.store/Sites-Columbia_US-Site/default/Home-

SelectCountry

Title: Columbia Sportswear | International > Select a Country

Summary: Welcome to the Greater Outdoors. Experience the Columbia Sportswear website specific to your country and language. Learn more about our products and find out where to ...

]

Relevant (Y/N)?: n

Result 6

[

URL: <http://www.gocolumbiamo.com/>

Title: Columbia, Missouri - Official Site

Summary: The City of Columbia Missouri's official web site. Perform business transactions, view services, department information, upcoming meetings and events.

]

Relevant (Y/N)?: n

Result 7

[

URL: <http://www8.gsb.columbia.edu/>

Title: Home | Columbia Business School

Summary: Columbia Business School brings a global perspective, cutting-edge methodology, and the energy of New York City to its MBA, EMBA, Executive Education, PhD, and MS ...

]

Relevant (Y/N)?: y

Result 8

[

URL: http://en.wikipedia.org/wiki/Columbia_university

Title: Columbia University - Wikipedia, the free encyclopedia

Summary: Columbia University in the City of New York, commonly referred to as Columbia University, is an American private Ivy League research university located in ...

]

Relevant (Y/N)?: y

Result 9

[

URL: <http://www.visitcolumbiacalifornia.com/>

Title: Columbia, California | Historic Gold Rush Town

Summary: Come discover Columbia and explore the rich history of this charming California Gold Rush town located in the heart of the Mother Lode off of highway 49.

]

Relevant (Y/N)?: n

Result 10

[

URL: <http://new.sipa.columbia.edu/>

Title: Columbia | SIPA | School of International and Public Affairs

Summary: Columbia SIPA is the world's most global public policy school. SIPA offers MPA, MIA and PhD degrees focused on the skills and knowledge needed to solve the most ...

]

Relevant (Y/N)?: y

=====

FEEDBACK SUMMARY

Query columbia

Precision from user relevance feedback - 0.4

Target Precision - 0.9

Indexing results

Augmented by university
Determining the best order of terms

=====

```
https://api.datamarket.azure.com/Bing/Search/Web?Query=%27columbia%20university%27&$top=10&$format=json
```

Parameters:

Client key = JsV9AIVwzY0l654YiaIXAppMcpvpm7lvkcYdmzJrNcs

Query = columbia university

Precision = 0.9

Url:

```
https://api.datamarket.azure.com/Bing/Search/Web?Query=%27columbia%20university%27&$top=10&$format=json
```

Total no of results : 10

Bing Search Results:

=====

Result 1

[

URL: <http://www.columbia.edu/>

Title: Columbia University - Official Site

Summary: Founded in 1754 as King's College by royal charter, it is the oldest institution of higher learning in the State of New York. Located in New York City and a member of ...

]

Relevant (Y/N)?: y

Result 2

[

URL: http://en.wikipedia.org/wiki/Columbia_university

Title: Columbia University - Wikipedia, the free encyclopedia

Summary: Columbia University in the City of New York, commonly referred to as Columbia University, is an American private Ivy League research university located in ...

]

Relevant (Y/N)?: y

Result 3

[

URL: <http://www.columbia.edu/content/admissions.html>

Title: Admissions | Columbia University in the City of New York

Summary: For information on admission to a Columbia school, select the appropriate school from the drop-down menu on the right.

]

Relevant (Y/N)?: y

Result 4

[

URL: <http://colleges.usnews.rankingsandreviews.com/best-colleges/columbia-university-2707>

Title: Columbia University | Best College | US News

Summary: Is Columbia University the best college for you? Find out at US News. See if Columbia University is ranked and get info on admission, tuition, student life, and more.

]

Relevant (Y/N)?: y

Result 5

[

URL: <http://www.college.columbia.edu/>

Title: Columbia College, Columbia University - Official Site

Summary: Columbia College is pleased to introduce the new Columbia College Annual Report,

which for the first time not only highlights the Columbia College Fund, as in the ...

]

Relevant (Y/N)?: y

Result 6

[

URL: <http://www.columbia.edu/content/about-columbia.html>

Title: About Columbia | Columbia University in the City of New York

Summary: Columbia is led by President Lee C. Bollinger. The University's governance is directed by the 24-member Board of Trustees and by the University Senate.

]

Relevant (Y/N)?: y

Result 7

[

URL: <http://arts.columbia.edu/columbia-university>

Title: Columbia University | Columbia University School of the Arts

Summary: From a one-room classroom with one professor and eight students, Columbia University has grown to include more than 4,000 faculty members and 23,000 students.

]

Relevant (Y/N)?: y

Result 8

[

URL:

http://topics.nytimes.com/top/reference/timestopics/organizations/c/columbia_university/index.html

Title: Columbia University's - Times Topics - The New York Times

Summary: News about Columbia University. Commentary and archival information about Columbia University from The New York Times.

]

Relevant (Y/N)?: y

Result 9

[

URL: <http://www.columbia.edu/content/employment-columbia.html>

Title: Employment at Columbia | Columbia University in the City ...

Summary: Opportunities at Columbia. Columbia University is committed to attracting, encouraging and retaining a highly qualified workforce to support our mission of excellence ...

]

Relevant (Y/N)?: y

Result 10

[

URL: <http://www.gocolumbialions.com/>

Title: Columbia Lions football - Official Site

Summary: The Official Online Home of the Columbia Lions, Columbia Athletics, Columbia University, Columbia Lions Official Merchandise, Columbia Lions broadcasting

]

Relevant (Y/N)?: y

=====

FEEDBACK SUMMARY

Query columbia university

Precision from user relevance feedback - 1.0

Target Precision - 0.9

Desired precision reached, done

ab3900@brussels:~/ADBProject1\$