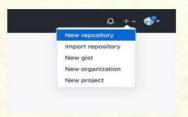
۱- یک repository جدید در github ایجاد کنید:

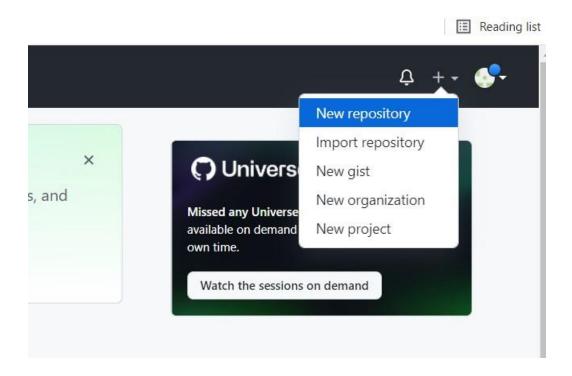


- روی سیستم خودتان یک فولدر جدید ایجاد کرده و این repository خالی را clone کنید.
- فایلهای پاسخ همه تمرینات مکتب را در این فولدر کپی کنید و بعد از اضافه کردن به گیت، روی repository قرار دهید.

لیست دستوراتی که اجرا کردید و لینک repository را در پاسخنامه این تمرین درج کنید.

۲- از repository زیر clone بگیرید:

https://github.com/mikepound/mazesolving



Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? Import a repository.



https://github.com/zeynabyousefi/zeynab yousefi Hw6 maktab65



Clone an empty repository https://github.com/zeynabyousefi/zeynab_yousefi_Hw6_maktab65

```
C:\Users\ASUS>cd Desktop
C:\Users\ASUS\Desktop>cd zeynab-yousefi-hw6-maktab65
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65>git clone https://github.com/zeynabyousefi/zeynab_yousefi_Hw6_maktab65.git
Cloning into 'zeynab_yousefi_Hw6_maktab65'...
warning: You appear to have cloned an empty repository.
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65>_
```

Clone a repository <u>GitHub - mikepound/mazesolving: A variety of algorithms to solve mazes from</u> an input image

```
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65>git clone https://github.com/mikepound/mazesolving Cloning into 'mazesolving'...
remote: Enumerating objects: 128, done.
remote: Total 128 (delta 0), reused 0 (delta 0), pack-reused 128
Receiving objects: 70% (90/128), 37.68 MiB | 774.00 KiB/s
Receiving objects: 100% (128/128), 37.90 MiB | 686.00 KiB/s, done.
Resolving deltas: 100% (60/60), done.
```

\$ git log

List commit history of current branch. -n count limits list to last n commits.

```
Commit 846ab599240015a16c2db38b0ff65c8ef0d43844
Merge: a5f3ba3 86474e5
Author: mikepound <a href="mailto:mpound@gmail.com">mpound@gmail.com</a>
Date: Sat Feb 25 08:57:12 2017 +0000

Merge pull request #2 from JosephBywater/master
Removed semicolons from line endings.

Commit 86474e5558bd0e9a7841c50d74c61a050bef1a9d
Author: TheJJ100100 <a href="mailto:dabdab.co.uk@gmail.com">dabdab.co.uk@gmail.com</a>
Date: Fri Feb 24 23:43:48 2017 +0000

Removed semicolons from line endings. Closes #1

Commit a5f3be30cd325f43b9487c681c3c25377f314988
Author: Michael Pound <a href="mailto:mpound@gmail.com">mpound@gmail.com</a>
Date: Wed Feb 22 11:35:47 2017 +0000

Readme updates.

Commit 7fda80f7d01102b17b37ef9daa0c240277b280ae
Author: Michael Pound <a href="mailto:mpound@gmail.com">mpound@gmail.com</a>
Date: Wed Feb 22 11:28:23 2017 +0000

Added a logo maze

Commit 2e503a42a0d7707aad403a1b7dc68fdad9f84df2
Author: Michael Pound <a href="mailto:mpound@gmail.com">mpound@gmail.com</a>
Date: Sun Feb 12 19:30:39 2017 +0000

Minor changes and a bug fix.

Commit 40826e863135b46fdd679b5dd2e9dab47446e1e4
Author: Michael Pound <a href="mailto:mpound@gmail.com">mpound@gmail.com</a>
Date: Sun Feb 12 17:42:54 2017 +0000
```

```
...skipping...
pmmit 524ced5899263ca6ca77bc634af7eef2d858d7c9 (HEAD -> master, origin/master, origin/HEAD)
 Werge: e81d36b 050f16b
Author: Michael Pound <michael.pound@nottingham.ac.uk>
Date: Thu May 21 23:14:12 2020 +0100
      Merge pull request #22 from H4CKY54CK/master
      Suppressing Decompression Bomb warning.
 commit 050f16b9c6603f5c4769f1434e25da885e17ba57
Author: H4CKY54CK <tk13xr37@gmail.com>
Date: Sun May 17 22:50:18 2020 -0400
      Update solve.py
commit e81d36ba767e2bcbe85e1e916c7154ac453466d5
Author: mikepound <mppound@gmail.com>
Date: Tue Feb 28 14:04:06 2017 +0000
      Fixed issue with missing width/height in PIL
      nit 6cba31af221ab18154fda9ff1dd99c7f02c2208a
 Author: mikepound <mppound@gmail.com>
Date: Tue Feb 28 08:49:23 2017 +0000
      Update README.md
      Altered the readme to refer to the wiki.
               b37de50674b3238c0a821765d40eabc0a98f74
 Author: Michael Pound <mppound@gmail.com>
Date: Sun Feb 26 17:00:45 2017 +0000
  ...skipping...
commit 524ced5899263ca6ca77bc634af7eef2d858d7c9 (HEAD -> master, origin/master, origin/HEAD)
 Merge: e81d36b 050f16b
Author: Michael Pound <michael.pound@nottingham.ac.uk>
Date: Thu May 21 23:14:12 2020 +0100
      Merge pull request #22 from H4CKY54CK/master
      Suppressing Decompression Bomb warning.
 commit 050f16b9c6603f5c4769f1434e25da885e17ba57
Author: H4CKY54CK <tkl3xr37@gmail.com>
Date: Sun May 17 22:50:18 2020 -0400
commit 148349cbd8d4d0e8846d9f3704d3d86
Werge: d7fd5b5 a2fa1a0
Author: m1kepound <mppound@gmail.com>
Date: Sat Feb 25 22:58:19 2017 +0000
      Merge pull request #6 from jmitchell/profiling
      Instrument with profiling to facilitate optimizations
commit d7fd5b5f20b21804e1dd692e37f93913c6fdbd21
Merge: 8d6ab59 c0ed4a2
Author: mikepound <mppound@gmail.com>
Date: Sat Feb 25 22:57:42 2017 +0000
      Merge pull request #5 from jmitchell/cleanup
      Standardize formatting
Author: Jacob Mitchell <jmitchell@member.fsf.org>
Date: Sat Feb 25 13:36:01 2017 -0800
      Use heapq priority queue implementation instead of FibHeap
      Based on runs of profile.py, the heapq implementation is significantly faster.  \\
commit fc2a587dde128595793ea794fd8e0bc7377ba014
Author: PhyNerd <jan.wrk.fb@gmail.com>
Date: Sat Feb 25 22:33:30 2017 +0100
      entrance/exit
      Since there can only be one entrance/exit to the maze there is no need to continue searching after finding one.
commit Ocdc72fafafab4a15cf7e9babf40d7e8dd7f38d3
Author: Jacob Mitchell <jmitchell@member.fsf.org>
Date: Sat Feb 25 13:01:38 2017 -0800
      Add PriorityQueue abstract class and FibHeap shim
```

This will make it easier to test different priority queue implementations.

commit a2fa1a0dee97a9e48281bc179bf8f01d7c72859c Author: Jacob Mitchell <jmitchell@member.fsf.org>

```
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving>git log
commit 524ced5899263ca6ca7bc6344f7eef2d858d7c9 (HEAD -> master, origin/master, origin/HEAD)
Merge: e81d36b 050f16b
Author: Michael Pound <michael.pound@nottingham.ac.uk>
Date: Thu May 21 23:14:12 2020 +0100

Merge pull request #22 from H4CKY54CK/master
Suppressing Decompression Bomb warning.

Commit 050f16b9c6603f5c4769f1434e25da885e17ba57
Author: H4CKY54CK <tkl3xr37@mail.com>
Date: Sun May 17 22:50:18 2020 -0400

Update solve.py

Commit e81d36ba767e2bcbe85e1e916c7154ac453466d5
Author: mikepound <mppound@gmail.com>
Date: Tue Feb 28 14:04:06 2017 +0000

Fixed issue with missing width/height in PIL

Commit 6cba31af22lab18154fda9ff1dd99c7f02c2208a
Author: mikepound <mppound@gmail.com>
Date: Tue Feb 28 08:49:23 2017 +0000

Update README.md

Altered the readme to refer to the wiki.

:...skipping...
commit 52dced5899263ca6ca77bc634af7eef2d858d7c9 (HEAD -> master, origin/master, origin/HEAD)

Merge: e81d36b 050f16b
Author: Thu May 21 23:14:12 2020 +0100

Merge pull request #22 from H4CKY54CK/master
```

```
...skτpping...
ommit 524ced5899263ca6ca77bc634af7eef2d858d7c9 (HEAD -> master, origin/master, origin/HEAD)
ommit 524ced5899263ca6ca77bc634af7eef2d858d7c9 (HEAD -> master, origin/master, origin/HEAD)
Merge: e81d36b 050f16b
Author: Michael Pound <michael.pound@nottingham.ac.uk>
Date: Thu May 21 23:14:12 2020 +0100
Date:
       Merge pull request #22 from H4CKY54CK/master
       Suppressing Decompression Bomb warning.
commit 050f16b9c6603f5c4769f1434e25da885e17ba57
Author: H4CKY54CK <tk13xr37@gmail.com>
Date: Sun May 17 22:50:18 2020 -0400
       Update solve.py
commit e81d36ba767e2bcbe85e1e916c7154ac453466d5
Author: mikepound <mppound@gmail.com>
Date: Tue Feb 28 14:04:06 2017 +0000
       Fixed issue with missing width/height in PIL
commit 6cba3laf22lab18154fda9ff1dd99c7f02c2208a
Author: mikepound <mppound@gmail.com>
Date: Tue Feb 28 08:49:23 2017 +0000
       Update README.md
       Altered the readme to refer to the wiki.
commit 57b37de50674b3238c0a821765d40eabc0a98f74
Author: Michael Pound <mppound@gmail.com>
Date: Sun Feb 26 17:00:45 2017 +0000
       Updated readme files.
commit c30deebd66076607d44ebfc5a92df31296a9c483
Author: Michael Pound <mppound@gmail.com>
Date: Sun Feb 26 16:52:01 2017 +0000
       Improved image output to avoid Numpy. Now works with larger 15k images. Removed/replaced vertical15k.png.
commit 4ad672cfec4288d1fd139a5074387053c9136538
Merge: 0e88d6d b5ae1ae
Author: mikepound <mppound@gmail.com>
```

View differences of two commits: git diff <commit_1> <commit_2>

```
c:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving-git diff 40826e863135b46fdd679b5dd2e9dab47446e1e4 lb381a6 ldiff -git a/.gitignore b/.gitignore deleted file mode 100644 lo0644 lo064 lo0644 lo0644 lo0644 lo0644 lo064 lo0644 lo06
```

```
cother.remove();
current.addchild(other);
degreeroots[currentdegree] = None;
current.addchild(other);
degreeroots[currentdegree] = current;
if currentpointer == self.minnode:
    break;

# 3: Remove current root and find new minnode
self.minnode = None;
newmaxdegree = 0;
for d in range (),logsize);
if degreeroots[d] != None;
self.minnode = degreeroots[d], previous = degreeroots[d];
self.miserthood(degreeroots[d]);
if (d > newmaxdegree)

maxdegree = newmaxdegree;

def decreasekey(self, node, newkey):
if newkey > node.key:
    # code.interact(local=locals())
    raise AssertionError("cannot decrease a key to a greater value");
elif newkey = node.key:
    return;
node.key = newkey;
parent = None;
if parent == None;
if parent == None;
elif parent.key <= newkey;
return;
elif parent.key <= newkey;
return;
elif parent.key <= newkey;
return;
elif parent.removechild(node);
self._inserthood(node);
self._inserthood(node);
if parent.mark == False;
    break;
else;
    node = parent;
</pre>
```

```
total = time.time()

total = time.time()

fPrints solve stats

print ("Nodes explored: ", stats[0]);

if (stats[2]);

print ("Path found, length", stats[1]);

else:

print ("Time elapsed: ", total; "s\n");

"""

Create and save the output image.

This is simple drawing code that travels between each node in turn, drawing either

a horizontal or vertical line as required. Line colour is roughly interpolated between

a horizontal or vertical line as required. Line colour is roughly interpolated between

a horizontal or vertical line as required. Line colour is roughly interpolated between

a horizontal or vertical line as required. Line colour is roughly interpolated between

a horizontal or vertical line as required. Line colour is roughly interpolated between

blue and red depending on how far down the path this section is. Dependency on numpy

should be easy to remove at some point.

print ("Saving Image");

mazeinage = np.array(image);

"mout = np.array(maseinage);

out = np.array(maseinage);

out = np.repeat(out, 3, axis=2);

resultpath = [n.Position for n in result];

length = len(resultpath);

px = [0, 0, 0];

for in range(o, length - 1);

a resultpath[i];

b = resultpath[i];

b = resultpath[i];

b = resultpath[i];

b = resultpath[i];

for x in range(min(a[1],b[1]), max(a[1],b[1]);

all = [1] = b[0];

if a[0] = b[0];

if a[0] = b[0];

if a[1] = b[0];

if a[1] = cout[a[0],x:1] = px

out[a[0],x:1] = px

out[a[0],x:1] = px

ing = Image.fromarray(out);

ing = Image.fromaray(out);

ing = Image.froma
```

\$ git checkout -b branch_name Switch working directory to the specified branch. With -b: Git will create the specified branch if it does not exist

Add a python file in file and add in git(in new branch)

Git branch (show list of branch)

\$ git add file name

And commit it

And git log (history commit)

```
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving>git branch
master
* zeynabyousefi
```

```
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65>cd mazesolving
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving>git checkout -b zeynabyousefi
Switched to a new branch 'zeynabyousefi'
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving>git add .
warning: LF will be replaced by CRLF in cls.
The file will have its original line endings in your working directory
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving>git add hw4fainally_zeynabyousefi-maktab65.py
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving>git commit -m"add hw4"
[zeynabyousefi O7fadf5] add hw4
3 files changed, 365 insertions(+)
create mode 100644 git
create mode 100644 git
create mode 100644 hw4fainally_zeynabyousefi-maktab65.py
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving>git log
commit O7fadf50ab34454b31147198c8d95648199a3ef3 (HEAD -> zeynabyousefi)
Author: zeynab <zeynabyousefi1380@gmail.com>
Date: Wed Nov 17 15:08:41 2021 +0330
add hw4
```

Git push in repository

https://github.com/zeynabyousefi/zeynab_yousefi_Hw6_maktab65

```
commit 6cba3laf22lab18154fda9ff1dd99c7f02c2208a
Author: mikepound <mppound@gmail.com>
C:\Users\ASUS\Desktop\zeynab-yousefi-hw6-maktab65\mazesolving>git push https://github.com/zeynabyousefi/zeynab_yousefi_H
w6_maktab65.git
Enumerating objects: 133, done.
Counting objects: 100% (133/133), done.
Delta compression using up to 8 threads
Compressing objects: 100% (71/71), done.
Writing objects: 39% (52/133)
```