

Question 1:

Breadth-First-Search

```
In [ ]: from bs4 import BeautifulSoup
import requests
from urllib.request import urljoin
from urllib.request import urlparse
```

```
In [ ]: links_intern = set()
links_extern = set()
input_url=input("Enter Link:")
depth=1
```

Enter Link:<https://www.reddit.com/>

```
In [ ]: def level_crawler(input_url):
    temp_urls=set()
    current_url_domain=urlparse(input_url).netloc
    beautiful_soup_object = BeautifulSoup(
requests.get(input_url).content, "html.parser")
    for anchor in beautiful_soup_object.findAll("a"):
        href = anchor.attrs.get("href")
        if(href!="") or href!=None):
            href=urljoin(input_url, href)
            href_parsed=urlparse(href)
            href=href_parsed.scheme
            href+="://"
            href+=href_parsed.netloc
            href+=href_parsed.path
            final_parsed_href=urlparse(href)
            is_valid=bool(final_parsed_href.scheme) and bool(
final_parsed_href.netloc)
            if is_valid:
                if current_url_domain not in href and href not in links_extern:
                    print("External - {}".format(href))
                    links_extern.add(href)
                if current_url_domain in href and href not in links_intern:
                    print("Internal - {}".format(href))
                    links_intern.add(href)
                    temp_urls.add(href)
    return temp_urls
```

```
In [ ]: if(depth == 0):
    print("Intern - {}".format(input_url))
elif(depth == 1):
    level_crawler(input_url)
else:
    queue = []
```

```
queue.append(input_url)
for j in range(depth):
    for count in range(len(queue)):
        url = queue.pop(0)
        urls = level_crawler(url)
        for i in urls:
            queue.append(i)
```

Internal - <https://www.reddit.com/>
Internal - <https://www.reddit.com/RedditRecap2022>
Internal - <https://www.reddit.com/login/>
Internal - <https://www.reddit.com/r/popular/>
Internal - <https://www.reddit.com/t/gaming/>
Internal - <https://www.reddit.com/t/valheim/>
Internal - https://www.reddit.com/t/genshin_impact/
Internal - <https://www.reddit.com/t/minecraft/>
Internal - <https://www.reddit.com/t/pokimane/>
Internal - https://www.reddit.com/t/halo_infinite/
Internal - https://www.reddit.com/t/call_of_duty_warzone/
Internal - https://www.reddit.com/t/path_of_exile/
Internal - https://www.reddit.com/t/hollow_knight_silksong/
Internal - https://www.reddit.com/t/escape_from_tarkov/
Internal - https://www.reddit.com/t/watch_dogs_legion/
Internal - <https://www.reddit.com/t/sports/>
Internal - <https://www.reddit.com/t/nfl/>
Internal - <https://www.reddit.com/t/nba/>
Internal - https://www.reddit.com/t/megan_anderson/
Internal - https://www.reddit.com/t-atlanta_hawks/
Internal - https://www.reddit.com/t/los_angeles_lakers/
Internal - https://www.reddit.com/t/boston_celtics/
Internal - https://www.reddit.com/t/arsenal_fc/
Internal - https://www.reddit.com/t/philadelphia_76ers/
Internal - https://www.reddit.com/t/premier_league/
Internal - <https://www.reddit.com/t/ufc/>
Internal - https://www.reddit.com/t/business_economics_and_finance/
Internal - <https://www.reddit.com/t/gamestop/>
Internal - <https://www.reddit.com/t/moderna/>
Internal - <https://www.reddit.com/t/pfizer/>
Internal - https://www.reddit.com/t/johnson_johnson/
Internal - <https://www.reddit.com/t/astrazeneca/>
Internal - <https://www.reddit.com/t/walgreens/>
Internal - https://www.reddit.com/t/best_buy/
Internal - <https://www.reddit.com/t/novavax/>
Internal - <https://www.reddit.com/t/spacex/>
Internal - <https://www.reddit.com/t/tesla/>
Internal - <https://www.reddit.com/t/cryptocurrency/>
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Internal - <https://www.reddit.com/t/dogecoin/>
Internal - <https://www.reddit.com/t/algorand/>
Internal - <https://www.reddit.com/t/bitcoin/>
Internal - <https://www.reddit.com/t/litecoin/>
Internal - https://www.reddit.com/t/basic_attention_token/
Internal - https://www.reddit.com/t/bitcoin_cash/
Internal - <https://www.reddit.com/t/television/>
Internal - https://www.reddit.com/t/the_real_housewives_of_atlanta/
Internal - https://www.reddit.com/t/the_bachelor/
Internal - https://www.reddit.com/t/sister_wives/
Internal - https://www.reddit.com/t/90_day_fiance/
Internal - https://www.reddit.com/t/wife_swap/
Internal - https://www.reddit.com/t/the_amazing_race_australia/
Internal - https://www.reddit.com/t/married_at_first_sight/
Internal - https://www.reddit.com/t/the_real_housewives_of_dallas/
Internal - https://www.reddit.com/t/my_600lb_life/
Internal - https://www.reddit.com/t/last_week_tonight_with_john_oliver/
Internal - <https://www.reddit.com/t/celebrity/>
Internal - https://www.reddit.com/t/kim_kardashian/
Internal - https://www.reddit.com/t/doja_cat/
Internal - https://www.reddit.com/t/iggy_azalea/
Internal - https://www.reddit.com/t/anya_taylor_joy/

Internal - https://www.reddit.com/t/jamie_lee_curtis/
Internal - https://www.reddit.com/t/natalie_portman/
Internal - https://www.reddit.com/t/henry_cavill/
Internal - https://www.reddit.com/t/millie_bobby_brown/
Internal - https://www.reddit.com/t/tom_hiddleston/
Internal - https://www.reddit.com/t/keanu_reeves/
Internal - <https://www.reddit.com/topics/a-1/>
Internal - https://www.reddit.com/t/animals_and_pets/
Internal - <https://www.reddit.com/t/anime/>
Internal - <https://www.reddit.com/t/art/>
Internal - https://www.reddit.com/t/cars_and_motor_vehicles/
Internal - https://www.reddit.com/t/crafts_and_diy/
Internal - https://www.reddit.com/t/culture_race_and_ethnicity/
Internal - https://www.reddit.com/t/ethics_and_philosophy/
Internal - <https://www.reddit.com/t/fashion/>
Internal - https://www.reddit.com/t/food_and_drink/
Internal - <https://www.reddit.com/t/history/>
Internal - <https://www.reddit.com/t/hobby/>
Internal - <https://www.reddit.com/t/law/>
Internal - https://www.reddit.com/t/learning_and_education/
Internal - <https://www.reddit.com/t/military/>
Internal - <https://www.reddit.com/t/movie/>
Internal - <https://www.reddit.com/t/music/>
Internal - <https://www.reddit.com/t/place/>
Internal - https://www.reddit.com/t/podcasts_and_streamers/
Internal - <https://www.reddit.com/t/politics/>
Internal - <https://www.reddit.com/t/programming/>
Internal - https://www.reddit.com/t/reading_writing_and_literature/
Internal - https://www.reddit.com/t/religion_and_spirituality/
Internal - <https://www.reddit.com/t/science/>
Internal - https://www.reddit.com/t/tabletop_games/
Internal - <https://www.reddit.com/t/technology/>
Internal - <https://www.reddit.com/t/travel/>
Internal - <https://www.reddit.com/hot/>
Internal - <https://www.reddit.com/new/>
Internal - <https://www.reddit.com/top/>
Internal - <https://www.reddit.com/rising/>
Internal - <https://www.reddit.com/r/movies/>
Internal - https://www.reddit.com/r/movies/comments/ztqlgb/hi_im_tobey_maguire_act
orexecutive_producer_of/
Internal - <https://www.reddit.com/r/IndiaSpeaks/>
Internal - https://www.reddit.com/r/IndiaSpeaks/comments/ztyqil/best_cuisines_in_th
e_world_2022_ranking/
Internal - <https://www.reddit.com/r/AskReddit/>
Internal - https://www.reddit.com/r/AskReddit/comments/ztsagt/what_is_something_ac
ceptable_in_women_but_frowned/
Internal - <https://www.reddit.com/r/Cricket/>
Internal - https://www.reddit.com/r/Cricket/comments/ztjrty/ipl_finalsquads_of_th
e_10_teams_after_the_auction/
Internal - https://www.reddit.com/r/Cricket/comments/ztyzp0/match_thread_2nd_test_
bangladesh_vs_india_day_3/
External - <http://www.espnccricinfo.com/series/21108/game/1340849/>
External - https://www.reddit-stream.com/r/Cricket/comments/ztyzp0/match_thread_2n
d_test_bangladesh_vs_india_day_3/
Internal - https://www.reddit.com/r/Cricket/comments/zu0grx/match_thread_14th_matc
h_hobart_hurricanes_vs/
Internal - <https://www.reddit.com/message/compose/>
Internal - https://www.reddit.com/r/Cricket/wiki/bot_schedule
Internal - https://www.reddit.com/r/Cricket/wiki/bot_help
Internal - <https://www.reddit.com/r/funny/>
Internal - https://www.reddit.com/r/funny/comments/ztxl8z/merry_christmas/

```
Internal - https://www.reddit.com/r/therewasanattempt/
Internal - https://www.reddit.com/r/therewasanattempt/comments/ztwica/to_protest/
Internal - https://www.reddit.com/r/BollyBlindsNGossip/
Internal - https://www.reddit.com/r/BollyBlindsNGossip/comments/zu1iab/ranveer_singh_was_brutally_mean_when_he_was/
External - https://www.redditinc.com/policies/user-agreement
External - https://www.redditinc.com/policies/privacy-policy
External - https://www.redditinc.com/policies/content-policy
External - https://www.redditinc.com/policies/moderator-guidelines
```

Question 2:

Depth-First-Search

```
In [ ]: import requests
from bs4 import BeautifulSoup
```

```
In [ ]: def dfs(base, path, visited, max_depth=3, depth=0):
        if depth < max_depth:
            try:
                soup = BeautifulSoup(requests.get(base + path).text, "html.parser")
                for link in soup.find_all("a"):
                    href = link.get("href")
                    if href not in visited:
                        visited.add(href)
                        print(f"at depth {depth}: {href}")
                        if href.startswith("http"):
                            dfs(href, "", visited, max_depth-1, depth + 1)
                        else:
                            dfs(base, href, visited, max_depth-1, depth + 1)
            except:
                pass
```

```
In [ ]: link=str(input("Input the Link to implement the DFS Technique"))
dfs(link, "", set([link]))
```

Input the Link to implement the DFS Technique
<https://www.w3schools.com/>
at depth 0: <https://www.w3schools.com>
at depth 0: javascript:void(0)
at depth 1: <https://www.w3schools.com>
at depth 1: /default.asp
at depth 0: <https://www.w3schools.com/videos/index.php>
at depth 1: index.php
at depth 1: #
at depth 1: /pro/index.php
at depth 1: <https://videojs.com/html5-video-support/>
at depth 1: /html/default.asp
at depth 1: /css/default.asp
at depth 1: /css/css_rwd_intro.asp
at depth 1: /bootstrap/bootstrap_ver.asp
at depth 1: /w3css/default.asp
at depth 1: /colors/default.asp
at depth 1: /icons/default.asp
at depth 1: /graphics/default.asp
at depth 1: /graphics/svg_intro.asp
at depth 1: /graphics/canvas_intro.asp
at depth 1: /howto/default.asp
at depth 1: /sass/default.php
at depth 1: /ai/default.asp
at depth 1: /python/python_ml_getting_started.asp
at depth 1: /datascience/default.asp
at depth 1: /python/numpy/default.asp
at depth 1: /python/pandas/default.asp
at depth 1: /python/scipy/index.php
at depth 1: /python/matplotlib_intro.asp
at depth 1: /statistics/index.php
at depth 1: /excel/index.php
at depth 1: /xml/default.asp
at depth 1: /xml/ajax_intro.asp
at depth 1: /xml/dom_intro.asp
at depth 1: /xml/xml_dtd_intro.asp
at depth 1: /xml/schema_intro.asp
at depth 1: /xml/xsl_intro.asp
at depth 1: /xml/xpath_intro.asp
at depth 1: /xml/xquery_intro.asp
at depth 1: /js/default.asp
at depth 1: /jquery/default.asp
at depth 1: /react/default.asp
at depth 1: /angular/default.asp
at depth 1: /js/js_json_intro.asp
at depth 1: /js/js_ajax_intro.asp
at depth 1: /appml/default.asp
at depth 1: /w3js/default.asp
at depth 1: /python/default.asp
at depth 1: /java/default.asp
at depth 1: /c/index.php
at depth 1: /cpp/default.asp
at depth 1: /cs/index.php
at depth 1: /r/default.asp
at depth 1: /kotlin/index.php
at depth 1: /go/index.php
at depth 1: /django/index.php
at depth 1: /typescript/index.php
at depth 1: /sql/default.asp
at depth 1: /mysql/default.asp
at depth 1: /php/default.asp
at depth 1: /asp/default.asp

at depth 1: /nodejs/default.asp
at depth 1: /nodejs/nodejs_raspberrypi.asp
at depth 1: /git/default.asp
at depth 1: /mongodb/index.php
at depth 1: /aws/index.php
at depth 1: <https://www.w3schools.com/spaces>
at depth 1: /where_to_start.asp
at depth 1: /w3css/w3css_templates.asp
at depth 1: /browsers/default.asp
at depth 1: /cert/default.asp
at depth 1: /whatis/default.asp
at depth 1: /tryit/default.asp
at depth 1: /typingspeed/default.asp
at depth 1: /codegame/index.html
at depth 1: /cybersecurity/index.php
at depth 1: /accessibility/index.php
at depth 1: <https://campus.w3schools.com/pages/newsletter>
at depth 1: /googlesheets/index.php
at depth 1: /tags/default.asp
at depth 1: /tags/ref_html_browsersupport.asp
at depth 1: /tags/ref_eventattributes.asp
at depth 1: /tags/ref_attributes.asp
at depth 1: /tags/ref_canvas.asp
at depth 1: /graphics/svg_reference.asp
at depth 1: /graphics/google_maps_reference.asp
at depth 1: /cssref/default.asp
at depth 1: /cssref/css3_browsersupport.asp
at depth 1: /cssref/css_selectors.asp
at depth 1: /bootstrap/bootstrap_ref_all_classes.asp
at depth 1: /bootstrap4/bootstrap_ref_all_classes.asp
at depth 1: /w3css/w3css_references.asp
at depth 1: /icons/icons_reference.asp
at depth 1: /sass/sass_functions_string.php
at depth 1: /jsref/default.asp
at depth 1: /jquery/jquery_ref_overview.asp
at depth 1: /angular/angular_ref_directives.asp
at depth 1: /appml/appml_reference.asp
at depth 1: /w3js/w3js_references.asp
at depth 1: /python/python_reference.asp
at depth 1: /java/java_ref_keywords.asp
at depth 1: /sql/sql_ref_keywords.asp
at depth 1: /mysql/mysql_ref_functions.asp
at depth 1: /php/php_ref_overview.asp
at depth 1: /asp/asp_ref_response.asp
at depth 1: /xml/dom_nodetype.asp
at depth 1: /xml/dom_http.asp
at depth 1: /xml/xsl_elementref.asp
at depth 1: /xml/schema_elements_ref.asp
at depth 1: /charsets/default.asp
at depth 1: /charsets/ref_html_ascii.asp
at depth 1: /charsets/ref_html_ansi.asp
at depth 1: /charsets/ref_html_8859.asp
at depth 1: /charsets/ref_html_symbols.asp
at depth 1: /charsets/ref_html_utf8.asp
at depth 1: /exercises/index.php
at depth 1: /html/html_exercises.asp
at depth 1: /css/css_exercises.asp
at depth 1: /js/js_exercises.asp
at depth 1: /sql/sql_exercises.asp
at depth 1: /mysql/mysql_exercises.asp
at depth 1: /php/php_exercises.asp

at depth 1: /python/python_exercises.asp
at depth 1: /python/numpy/numpy_exercises.asp
at depth 1: /python/pandas/pandas_exercises.asp
at depth 1: /python/scipy/scipy_exercises.php
at depth 1: /jquery/jquery_exercises.asp
at depth 1: /java/java_exercises.asp
at depth 1: /cpp/cpp_exercises.asp
at depth 1: /cs/cs_exercises.asp
at depth 1: /r/r_exercises.asp
at depth 1: /kotlin/kotlin_exercises.php
at depth 1: /go/go_exercises.php
at depth 1: /bootstrap/bootstrap_exercises.asp
at depth 1: /bootstrap4/bootstrap_exercises.asp
at depth 1: /bootstrap5/bootstrap_exercises.php
at depth 1: /git/git_exercises.asp
at depth 1: /quiztest/default.asp
at depth 1: /html/html_quiz.asp
at depth 1: /css/css_quiz.asp
at depth 1: /js/js_quiz.asp
at depth 1: /sql/sql_quiz.asp
at depth 1: /mysql/mysql_quiz.asp
at depth 1: /php/php_quiz.asp
at depth 1: /python/python_quiz.asp
at depth 1: /python/numpy/numpy_quiz.asp
at depth 1: /python/pandas/pandas_quiz.asp
at depth 1: /python/scipy/scipy_quiz.php
at depth 1: /jquery/jquery_quiz.asp
at depth 1: /java/java_quiz.asp
at depth 1: /cpp/cpp_quiz.asp
at depth 1: /cs/cs_quiz.asp
at depth 1: /r/r_quiz.asp
at depth 1: /kotlin/kotlin_quiz.php
at depth 1: /xml/xml_quiz.asp
at depth 1: /bootstrap/bootstrap_quiz.asp
at depth 1: /bootstrap4/bootstrap_quiz.asp
at depth 1: /bootstrap5/bootstrap_quiz.php
at depth 1: /cybersecurity/cybersecurity_quiz.php
at depth 1: /accessibility/accessibility_quiz.php
at depth 1: <https://shop.w3schools.com/collections/course-catalog>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/html-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/css-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/javascript-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/front-end-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/sql-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/php-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/python-course>
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at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/pandas-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/data-analytics-program>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/jquery-course>

at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/java-course>
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at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/r-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/reactjs-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/bootstrap-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/bootstrap-4-course>
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at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/cyber-security-course>
at depth 1: <https://shop.w3schools.com/collections/course-catalog/products/accessibility-course>
at depth 1: <https://shop.w3schools.com/collections/certifications>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/html-certificate>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/css-certificate>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/javascript-certificate>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/front-end-certificate>
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at depth 1: <https://shop.w3schools.com/collections/certifications/products/php-certificate>
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at depth 1: <https://shop.w3schools.com/collections/certifications/products/bootstrap-3-certificate>
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at depth 1: <https://shop.w3schools.com/collections/certifications/products/jquery-certificate>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/java-certificate>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/c-certificate>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/c-certificate-1>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/reactjs-certificate>
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at depth 1: <https://shop.w3schools.com/collections/certifications/products/cyber-security-certificate>
at depth 1: <https://shop.w3schools.com/collections/certifications/products/accessibility-certificate>

at depth 1: <https://shop.w3schools.com/collections/certifications/products/excel-certificate>
at depth 1: <http://w3schools.com/>
at depth 1: https://www.w3schools.com/about/about_privacy.asp
at depth 1: https://www.w3schools.com/about/about_copyright.asp
at depth 0: https://profile.w3schools.com/log-in?redirect_url=https%3A%2F%2Fmy-learning.w3schools.com
at depth 0: javascript:void(0);
at depth 0: <https://campus.w3schools.com/collections/course-catalog>
at depth 1: #site-main
at depth 1: <https://campus.w3schools.com/collections/course-catalog/products/w3schools-full-access-course>
at depth 1: /
at depth 1: /collections/course-catalog
at depth 1: /cart
at depth 1: /collections/certifications
at depth 1: <https://www.w3schools.com/spaces/>
at depth 1: /pages/not-sure-where-to-begin
at depth 1: /pages/home-page
at depth 1: /pages/w3schools-discord-community
at depth 1: <https://W3Schools.com>
at depth 1: <https://support.w3schools.com>
at depth 1: <https://my-learning.w3schools.com/certificates>
at depth 1: #site-header-nav
at depth 1: /collections/course-catalog?filter.p.product_type=Course
at depth 1: /collections/course-catalog/products/w3schools-full-access-course
at depth 1: /collections/course-catalog/products/web-application-development-course
at depth 1: /collections/course-catalog/products/front-end-course
at depth 1: /collections/course-catalog/products/data-analytics-program
at depth 1: /collections/course-catalog/products/learn-modern-web-development
at depth 1: /collections/course-catalog/products/learn-web-design
at depth 1: /collections/course-catalog/products/html-course
at depth 1: /collections/course-catalog/products/css-course
at depth 1: /collections/course-catalog/products/javascript-course
at depth 1: /collections/course-catalog/products/sql-course
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at depth 0: /css/tryit.asp?filename=trycss_default
at depth 0: /js/tryit.asp?filename=tryjs_default
at depth 0: /python/trypython.asp?filename=demo_indentation
at depth 0: /sql/trysql.asp?filename=trysql_select_where

at depth 0: /js/js_json.asp
at depth 1: default.asp
at depth 1: js_intro.asp
at depth 1: js_whereto.asp
at depth 1: js_output.asp
at depth 1: js_statements.asp
at depth 1: js_syntax.asp
at depth 1: js_comments.asp
at depth 1: js_variables.asp
at depth 1: js_let.asp
at depth 1: js_const.asp
at depth 1: js_operators.asp
at depth 1: js_arithmetic.asp
at depth 1: js_assignment.asp
at depth 1: js_datatypes.asp
at depth 1: js_functions.asp
at depth 1: js_objects.asp
at depth 1: js_events.asp
at depth 1: js_strings.asp
at depth 1: js_string_methods.asp
at depth 1: js_string_search.asp
at depth 1: js_string_templates.asp
at depth 1: js_numbers.asp
at depth 1: js_bigint.asp
at depth 1: js_number_methods.asp
at depth 1: js_number_properties.asp
at depth 1: js_arrays.asp
at depth 1: js_array_methods.asp
at depth 1: js_array_sort.asp
at depth 1: js_array_iteration.asp
at depth 1: js_array_const.asp
at depth 1: js_dates.asp
at depth 1: js_date_formats.asp
at depth 1: js_date_methods.asp
at depth 1: js_date_methods_set.asp
at depth 1: js_math.asp
at depth 1: js_random.asp
at depth 1: js_booleans.asp
at depth 1: js_comparisons.asp
at depth 1: js_if_else.asp
at depth 1: js_switch.asp
at depth 1: js_loop_for.asp
at depth 1: js_loop_forin.asp
at depth 1: js_loop_forof.asp
at depth 1: js_loop_while.asp
at depth 1: js_break.asp
at depth 1: js_iterables.asp
at depth 1: js_sets.asp
at depth 1: js_maps.asp
at depth 1: js_typeof.asp
at depth 1: js_type_conversion.asp
at depth 1: js_bitwise.asp
at depth 1: js_regexp.asp
at depth 1: js_precedence.asp
at depth 1: js_errors.asp
at depth 1: js_scope.asp
at depth 1: js_hoisting.asp
at depth 1: js_strict.asp
at depth 1: js_this.asp
at depth 1: js_arrow_function.asp
at depth 1: js_classes.asp

at depth 1: js_modules.asp
at depth 1: js_json.asp
at depth 1: js_debugging.asp
at depth 1: js_conventions.asp
at depth 1: js_best_practices.asp
at depth 1: js_mistakes.asp
at depth 1: js_performance.asp
at depth 1: js_reserved.asp
at depth 1: js_versions.asp
at depth 1: js_es5.asp
at depth 1: js_es6.asp
at depth 1: js_2016.asp
at depth 1: js_2017.asp
at depth 1: js_2018.asp
at depth 1: js_2019.asp
at depth 1: js_2020.asp
at depth 1: js_2021.asp
at depth 1: js_ie_edge.asp
at depth 1: js_history.asp
at depth 1: js_object_definition.asp
at depth 1: js_object_properties.asp
at depth 1: js_object_methods.asp
at depth 1: js_object_display.asp
at depth 1: js_object_accessors.asp
at depth 1: js_object_constructors.asp
at depth 1: js_object_prototypes.asp
at depth 1: js_object_iterables.asp
at depth 1: js_object_sets.asp
at depth 1: js_object_maps.asp
at depth 1: js_object_es5.asp
at depth 1: js_function_definition.asp
at depth 1: js_function_parameters.asp
at depth 1: js_function_invocation.asp
at depth 1: js_function_call.asp
at depth 1: js_function_apply.asp
at depth 1: js_function_bind.asp
at depth 1: js_function_closures.asp
at depth 1: js_class_intro.asp
at depth 1: js_class_inheritance.asp
at depth 1: js_class_static.asp
at depth 1: js_callback.asp
at depth 1: js_asynchronous.asp
at depth 1: js_promise.asp
at depth 1: js_async.asp
at depth 1: js_htmldom.asp
at depth 1: js_htmldom_methods.asp
at depth 1: js_htmldom_document.asp
at depth 1: js_htmldom_elements.asp
at depth 1: js_htmldom_html.asp
at depth 1: js_validation.asp
at depth 1: js_htmldom_css.asp
at depth 1: js_htmldom_animate.asp
at depth 1: js_htmldom_events.asp
at depth 1: js_htmldom_eventlistener.asp
at depth 1: js_htmldom_navigation.asp
at depth 1: js_htmldom_nodes.asp
at depth 1: js_htmldom_collections.asp
at depth 1: js_htmldom_nodelist.asp
at depth 1: js_window.asp
at depth 1: js_window_screen.asp
at depth 1: js_window_location.asp

at depth 1: js_window_history.asp
at depth 1: js_window_navigator.asp
at depth 1: js_popup.asp
at depth 1: js_timing.asp
at depth 1: js_cookies.asp
at depth 1: js_api_intro.asp
at depth 1: js_validation_api.asp
at depth 1: js_api_history.asp
at depth 1: js_api_web_storage.asp
at depth 1: js_api_web_workers.asp
at depth 1: js_api_fetch.asp
at depth 1: js_api_geolocation.asp
at depth 1: js_ajax_intro.asp
at depth 1: js_ajax_http.asp
at depth 1: js_ajax_http_send.asp
at depth 1: js_ajax_http_response.asp
at depth 1: js_ajax_xmlfile.asp
at depth 1: js_ajax_php.asp
at depth 1: js_ajax_asp.asp
at depth 1: js_ajax_database.asp
at depth 1: js_ajax_applications.asp
at depth 1: js_ajax_examples.asp
at depth 1: js_json_intro.asp
at depth 1: js_json_syntax.asp
at depth 1: js_json_xml.asp
at depth 1: js_json_datatypes.asp
at depth 1: js_json_parse.asp
at depth 1: js_json_stringify.asp
at depth 1: js_json_objects.asp
at depth 1: js_json_arrays.asp
at depth 1: js_json_server.asp
at depth 1: js_json_php.asp
at depth 1: js_json_html.asp
at depth 1: js_json_jsonp.asp
at depth 1: js_jquery_selectors.asp
at depth 1: js_jquery_elements.asp
at depth 1: js_jquery_css.asp
at depth 1: js_jquery_dom.asp
at depth 1: js_graphics.asp
at depth 1: js_graphics_canvas.asp
at depth 1: js_graphics_plotly.asp
at depth 1: js_graphics_chartjs.asp
at depth 1: js_graphics_google_chart.asp
at depth 1: js_graphics_d3js.asp
at depth 1: js_examples.asp
at depth 1: js_dom_examples.asp
at depth 1: js_input_examples.asp
at depth 1: js_ex_dom.asp
at depth 1: js_events_examples.asp
at depth 1: js_ex_browser.asp
at depth 1: js_editor.asp
at depth 1: js_exercises.asp
at depth 1: js_quiz.asp
at depth 1: js_exam.asp
at depth 1: tryit.asp?filename=tryjs_json_parse
at depth 0: /tryit/tryit.asp?filename=tryhtml_hello
at depth 0: /tryit/trycompiler.asp?filename=demo_python
at depth 0: https://my-learning.w3schools.com/
at depth 0: https://www.w3schools.com/spaces/index.html
at depth 1: http://profile.w3schools.com/log-in?redirect_url=https%3A%2F%2Fspaces.w3schools.com%2Fcreatespace%2Fstepone

```
at depth 1: https://profile.w3schools.com/signup?redirect_url=https%3A%2F%2Fspace  
s.w3schools.com%2Fcreatespace%2Fstepone  
at depth 1: https://billing.w3schools.com/products/spaces?frequency=monthly&select  
edPlan=pro-monthly  
at depth 1: https://billing.w3schools.com/products/spaces?frequency=monthly&select  
edPlan=premium-monthly  
at depth 1: https://support.w3schools.com/hc/en-gb/articles/4411122929553-How-do-I  
-do-bulk-enrolments  
at depth 1: #whatsincl
```

Question 3:

Twitter Topic Focused Crawler – on Topic “FIFA 2022”(Challenging Task)

```
In [ ]: from bs4 import BeautifulSoup as soup  
import requests
```

```
In [ ]: #SINCE API OF TWITTER WASNT WORKING  
seed_url="https://twitter.com/search?q=FIFA%20QATAR%202022&src=typed_query"  
response=requests.get(seed_url)  
print("Response Status Code :",response.status_code)  
rootPage=soup(response.content,'html.parser')  
atags=rootPage.find_all('a')  
for atag in atags:  
    link=atag['href']  
    print(link)
```

```
Response Status Code : 200  
https://help.twitter.com/using-twitter/twitter-supported-browsers  
https://twitter.com/tos  
https://twitter.com/privacy  
https://support.twitter.com/articles/20170514  
https://legal.twitter.com/imprint.html  
https://business.twitter.com/en/help/troubleshooting/how-twitter-ads-work.html?ref  
=web-twc-ao-gbl-adsinfo&utm_source=twc&utm_medium=web&utm_campaign=ao&utm_content=  
adsinfo
```

Question 4:

Identify the Robot exclusion protocol file in your preferred website. Robots Exclusion protocol is used to tell search engine crawlers which URLs it should NOT request when crawling a Web site.

```
In [ ]: from bs4 import BeautifulSoup as soup  
import requests  
seedURL = input("Enter the Input URL:")  
if(seedURL.endswith('/')):  
    path=seedURL  
else:  
    path=seedURL+'/'  
response = requests.get(path+"robots.txt",data=None)  
print("Status of the response : ", response.status_code)  
rootPage=soup(response.content,'html.parser')
```

```
print("-----Result-----")
print(rootPage)
```

Status of the response : 200
-----Result-----
80legs
User-agent: 008
Disallow: /

80legs' new crawler
User-agent: voltron
Disallow: /

User-Agent: bender
Disallow: /my_shiny_metal_ass

User-Agent: Gort
Disallow: /earth

User-agent: MJ12bot
Disallow: /

User-agent: PiplBot
Disallow: /

User-Agent: *
Disallow: /*.json
Disallow: /*.json-compact
Disallow: /*.json-html
Disallow: /*.xml
Disallow: /*.rss
Allow: /r/*.rss
Disallow: /r/*/comments/*.rss
Disallow: /r/*/config/*.rss
Disallow: /r/*/wiki/*.rss
Disallow: /*.i
Disallow: /*.embed
Disallow: /*/comments/*?*sort=
Disallow: /*comment/*
Disallow: /r/*/submit\$
Disallow: /r/*/submit/\$
Disallow: /message/compose*
Disallow: /api
Disallow: /post
Disallow: /submit
Disallow: /goto
Disallow: /*after=
Disallow: /*before=
Disallow: /domain/*t=
Disallow: /login
Disallow: /remove_email/t2_*
Disallow: /r/*/user/
Disallow: /gold?
Disallow: /static/button/button1.js
Disallow: /static/button/button1.html
Disallow: /static/button/button2.html
Disallow: /static/button/button3.html
Disallow: /buttonlite.js
Disallow: /timings/perf
Disallow: /counters/client-screenview
Disallow: /*?*feed=
Disallow: /svc/shreddit/*
Allow: /
Allow: /sitemaps/*.xml

Allow: /posts/*