Chartest Expert Problems Mode Contest Articles Discuss @ Sto E7 # 0 # This is HtmlParser's API interface.
You should not implement it, or speculate about its implementation Given a uni stantilini, and an interface littalParsen, implement a Multi-threaded web crawler to crawl all links that are under the same hosts 5 %c 6 # 7 # # 9 # 10 # 11 an startUrl def getürlm(melf, url): :type url: str :rtype List[str] Return all urts obtained by your web crawler in any order. Start from the page: xtartUr1
 Call HtmlParser, getUrls(ur1) to get all urls from a webpage of given url.
 Do not creat the same list here.
 Explore only the links that are under the same hostname as xtartUr1. 12 - clasx Solution(object): 11 - def crawl(self, startUrl, htmlParser): :type startUrl: str :type htmlParser: HtmlParser :rtype: List[str] example.org 8888 ---As shown in the example of above, the hostname is example, org. for simplicity sake, you may assume all orbitive http protocol without any port specified for example, the orbitive http://leetcode.com/problems and http://leetcode.com/context are under the same hostname, while orbitive http://example.com/stast and http://example.com/st The Ut will be year interface is defined as such interface | HtmlParser {
 // Return a list of all urls from a webpage of given url.
 // This is a blocking call, that means it will do HETP request and return when this request is finished.
public listcString> getUrls(String url); Note that getUris(String url) simulates performing a HTIP request. You can treat it as a blocking function call which waits for a HTIP request to finish. It is guaranteed that getUris(String url) will return the urls within 15ms. Single-threaded solutions will exceed the time limit so, can your multi-threaded web crawler do better! Below are two examples explaining the functionality of the problem, for custom testing purposes you'll have three variables urls, edges and startUrl. Notice that you will only have access to startUrl in your code, while urls and edges are not directly accessible to you in code. Fallow up: Assume we have 10,000 nodes and 1 billion URLs to crawf. We will deploy the same software onto each node. The software can know about all the nodes. We have to minimize communication between machines and make sure each node does equal amount of work. How would your web crawler 3. How do you know when the crawler is done? Imput: urls = ["http://news.yahoo.com", "http://news.yahoo.com/news", "http://news.yshoo.com/news/topics/", "http://news.google.com" edgex = [[2,0],[2,1],[3,2],[3,1],[0,4]] "http://news.yahoo.com/news", "http://news.yahoo.com/news/topics/",
"http://news.yahoo.com/us" Input:
urls = {
 "http://news.yahoo.com", "http://news.yahoo.com/news",
"http://news.yahoo.com/news/topics/",
"http://news.google.com" edges = [[0,2],[2,1],[3,2],[3,1],[3,0]] **StartUrl = "http://news.google.com"

Output: ["http://news.google.com"]

Explanation: The startUrl links to all other pages that do not share the same hostner 1 <= urls.length <= 380
1 <= urls.lil.length <= 380
startiir.lil.none of the urls.
Hostname label must be from 1 to 63 characters long, including the dats, may contain only the ASCII letters from 'a' to 'a', digits from 'U to 'V' and the hyphen-minus character (~).

The boshname may not start or end with the hyphen-minus character (~).

See: https://en.widpedia.org/wid/shahame/Restrictions.on_valid_hashs
You may assume there've no duplicates in utilizary. Accepted 4,272 | Submissions 9,749

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