Cheatography

python for interview Cheat Sheet

by faq via cheatography.com/132873/cs/26953/

Queues

Priority Queue	from queue import PriorityQueue
	customers = PriorityQueue()
	customers.put((2, "Harry"))
	while customers:
	print(customers.get())

Heaps

import heapq	
heapq.heapify(li)	transform array "li" into min-heap
heapq._heapify_max(li)	transform array "li" into max-heap
heapq.heappush(li,4)	push element in the heap
heapq.heappop(li)	pop the smallest element
heapq.nlargest(3, li1)	get the 3 largest numbers
heapq.nsmallest(3, li1)	get the 3 smallest numbers
heapq.nsmallest(3, tuple_list, key=lambda x: x[1])	if we want 3 smallest tuple_list second dimension

Deque

deque sized	window = deque(maxlen=3)

String

Split	string.split(" ", 1) //split first occ
Replace	str.replace('e', '')
Replace first occurrence	str.replace('e', '',1)
Remove symbols from phrase	paragraph = ''.join([c.lower() if c.isalnum() else ' ' for c in paragraph])

String (cont)

check array if matches	banned_words = set(banned)
	for word in toCount:
	if word not in banned_words:
	...

Arrays

array of set capacity	LRUcache = [] * capacity
sort to new	new_list = sorted(old_list, key=..., reverse=...)
sort in place	list.sort(key=..., reverse=...)
sort by len	list.sort(key=len)
sort column	def takeSecond(elem): return elem[1] list.sort(key=takeSecond)

sort on objects

```
>>> class Student:
...     def __init__(self, name, grade, age):
...         self.name = name
...         self.grade = grade
...         self.age = age
...     def __repr__(self):
...         return repr((self.name, self.grade, self.age))
>>> student_objects = [
...     Student('john', 'A', 15),
...     Student('jane', 'B', 12),
...     Student('dave', 'B', 10),
... ]
>>> sorted(student_objects, key=lambda student: student.age)
[('dave', 'B', 10), ('jane', 'B', 12), ('john', 'A', 15)]
```

Dict

create dict	dict = {}
return keys arr	dict.keys()
return values arr	dict.values()
order a dict by value	from operator import itemgetter sorted_keys = sorted(toReduce.items(), key=itemgetter(1))
orderdict	from collections import OrderedDict d = OrderedDict() d.move_to_end('key')

Dict (cont)

orderdict by value	from collections import OrderedDict from operator import itemgetter OrderedDict(sorted(d.items(), key = itemgetter(1), reverse = True))
put in first position	d.move_to_end('key',last=False)
comprehension list val*2	dict_variable = {key:value*2 for (key,value) in dictonary.items()}
dict with array as key	dictionary[tuple(arr)] = val

Classes

initialise	__init__(self, var1, var2)
create iterable	__iter__(self)

Files

Read file	wfile = open(wordFile, ' r')
split line	for line in wfile: word = line[:-1]

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Published 11th March, 2021.
Last updated 23rd March, 2021.

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