

Cheatography

python for interview Cheat Sheet by faq via cheatography.com/132873/cs/26953/

Queues		String (cont)		Dict (cont)	
Priority Queue	from queue import PriorityQueue customers = PriorityQueue() customers.put((2, "Harry")) while customers: print(customers.get())	check array if matches	banned_words = set(banned) for word in toCount: if word not in banned_words: ...	orderdict by value	from collections import OrderedDict from operator import itemgetter OrderedDict(sorted(d.items(), key = itemgetter(1), reverse = True))
Heaps		Arrays		put in first position	
import heapq		array of set capacity	LRUcache = [] * capacity	dict_comprehension	dict_variable = {key:value*2 for (key,value) in dictionary.items()}
heapq.heapify(li)	transform array "li" into min-heap	sort to new	new_list = sorted(old_list, key=..., reverse=...)	list val*2	
heapq._heapify_max(li)	transform array "li" into max-heap	sort in place	list.sort(key=..., reverse=...)	dict with array as key	dictionary[tuple(arr)] = val
heapq.heappush(li,4)	push element in the heap	sort by len	list.sort(key=len)		
heapq.heappop(li)	pop the smallest element	sort column	def takeSecond(elem): return elem[1] list.sort(key=takeSecond)		
heapq.nlargest(3, li1)	get the 3 largest numbers	sort on objects		Classes	
heapq.nsmallest(3, li1)	get the 3 smallest numbers	<pre>>>> 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)]</pre>		initialise	__init__(self, var1, var2)
heapq.nsmallest(3, tuple_list, key=lambda x: x[1])	if we want 3 smallest tuple_list second dimension	<pre>create dict</pre>		create iterable	__iter__(self)
Deque		Dict		Files	
deque sized	window = deque(maxlen=3)	create dict	dict = {} dict	Read file	wfile = open(wordFile, 'r')
String		return keys arr	dict.keys()	split line	for line in wfile: word = line[-1]
Split	string.split(" ", 1) //split first occ	return values arr	dict.values()		
Replace	str.replace('e', '')	order a dict by value	from operator import itemgetter sorted_keys = sorted(toReduce.items(), key=itemgetter(1))		
Replace first occurrence	str.replace('e', '',1)	orderdict	from collections import OrderedDict d = OrderedDict() d.move_to_end('key')		
Remove symbols from phrase	paragraph = ".join([c.lower() if c.isalnum() else '' for c in paragraph])				

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