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Il codice suggerito potrebbe essere soggetto a una licenza | AdityaChirravuri/CompetitiveProgramming | CristianaDiTullio/AI
1 #-----PROBLEM 1-----
2
3 # Say "Hello, World!" with python
4 print('Hello, World!')
6 #Python If-Else
7 import math
8 import os
9 import random
10 import re
11 import sys
12 n = int(input())
13
14 if n % 2 != 0:
       print('Weird')
16 elif n % 2 == 0 and 2 <= n <= 5:
        print('Not Weird')
17
18 elif n % 2 == 0 and 6 <= n <= 20:
        print('Weird')
20 elif n % 2 == 0 and n > 20:
        print('Not Weird')
21
22
23 #Arithmetic Operators
24 a = int(input())
25 b = int(input())
26 print(a+b)
27 print(a-b)
28 print(a*b)
29
30 #Python Division
31 a = int(input())
32 b = int(input())
33 print(a//b)
34 print(a/b)
35
36 #Loops
37 n = int(input())
38 for i in range(n):
       print(i*i)
39
40
41 #Write a function
42 def is_leap(year):
43
       if year % 400 == 0:
44
           return True
       elif year % 100 == 0:
45
46
           return False
47
       elif year % 4 == 0:
48
           return True
49
       else:
50
           return False
```

51

print(is leap(vear))

```
52
 53 #Print Function
 54 n = int(input())
 55 for i in range(1, n+1):
 56
        print(i, end='')
 57
 58 #Find the Runner-Up Score!
 59 n = int(input())
 60 arr = list(map(int, input().split()))
 61 first_max = max(arr)
 62 while first_max in arr:
 63
        arr.remove(first_max)
 64 \operatorname{second_max} = \operatorname{max}(\operatorname{arr})
 65 print(second max)
 66
 67 #Nested List
 68 student = []
 69 for i in range(int(input())):
 70
        name = input()
 71
        score = float(input())
 72
        student.append([name, score])
 73 score = sorted(set([score for name, score in student]))
 74 second lowest score= score[1]
 75 second_lowest_students= sorted([name for name, score in student if score== second_low
 76 for student in second lowest students:
 77
        print(student)
 78
 79 #Finding the percentage
 80 n= int(input())
 81 student_marks = {}
 82 for el in range(n):
        data=input().split()
 83
        name = data[0]
 84
 85
        marks = list(map(float, data[1:]))
 86
        student_marks[name] = marks
 87 query_name= input()
 88 query_marks= student_marks [query_name]
 89 mean = sum(query marks) / len(query marks)
 90 print(f"{mean:.2f}")
 91
 92 #Lists
 93 if __name__ == '__main__':
        list= []
 94
 95
        for _ in range(int(input())):
            command= input().split()
 96
            if command[0] == "insert":
 97
 98
                 list.insert(int(command[1]), int(command[2]))
            elif command[0] == "print":
 99
                print(list)
100
            elif command[0] == "remove":
101
                 list.remove(int(command[1]))
102
103
            elif command[0] == "append":
                 list.append(int(command[1]))
104
```

```
elif command[0] == "sort":
105
                list.sort()
106
            elif command[0] == "pop":
107
                list.pop()
108
            elif command[0] == "reverse":
109
                list.reverse()
110
111
112 #Tuples
113 if __name__ == '__main__':
114
        n = int(input())
        integer_list = map(int, input().split())
115
116
        t = tuple(integer_list)
        print(hash(t))
117
118
119 #List Comprehension
120 if __name__ == '__main__':
        x = int(input())
121
122
        y = int(input())
       z = int(input())
123
124
        n = int(input())
125
        r=[[i, j, k] \text{ for } i \text{ in range } (x+1)
                       for j in range (y+1)
126
                       for k in range (z+1)
127
                       if i+j+k != n]
128
129 print(r)
130
131 #String Split and Join
132 def split_and_join(line):
        a = line.split(" ")
133
        return("-".join(a))
134
135
136 if name == ' main ':
137
        line= input()
        result= split_and_join(line)
138
        print(result)
139
140
141 #What's Your Name?
142 def print full name(first, last):
        print("Hello " + first + " " + last + "! You just delved into python.")
143
144
145 #Mutations
146 def mutate_string(string, position, character):
        l=list(string)
147
        l[position]= character
148
        string= "".join(1)
149
        return(string)
150
151
152 #Find a String
153 def count_substring(string, sub_string):
154
        count=0
        for i in range(len(string)-len(sub_string) + 1):
155
            if string[i:i+len(sub string)] == sub string:
156
157
                count += 1
```

```
158
        return count
159
160 #String Validators
161 if __name__ == '__main__':
       s = input()
162
        print(any(c.isalnum() for c in s))
163
        print(any(c.isalpha()for c in s))
164
       print(any(c.isdigit() for c in s))
165
        print(any(c.islower() for c in s))
166
167
        print(any(c.isupper() for c in s))
168
169 #Text Wrap
170 def wrap(string, max_width):
171
        return textwrap.fill(string, max width)
172
173 #Shape and Reshape
174 import numpy as np
175 my_array = np.array(list(map(int, input().split())))
176 \text{ my\_array.shape} = (3, 3)
177 print(my_array)
178
179 #Capitalize!
180 def solve(s):
181
       name = s.split(' ')
182
       new name= []
183
       for word in name:
184
            if len(word)>0:
                new_name.append(word[0].upper()+ word[1:])
185
186
            else:
187
                new name.append(word)
188
        return' '.join(new_name)
189
190 #Designer Door Mat
191 N, M = map(int,input().split())
192 for i in range(1, N, 2):
       pattern = ".|." * i
193
194
        print(pattern.center(M, '-'))
195 print("WELCOME".center(M, '-'))
196 for i in range(N-2, 0, -2):
        pattern = ".|." * i
197
        print(pattern.center(M, '-'))
198
199
200 #Symmetric Difference
201 m = int(input())
202 my set = set(map(int, input().split()))
203 n = int(input())
204 my set2 = set(map(int, input().split()))
205 [print(i) for i in sorted(my set^my set2)]
206
207 #Set.add()
208 n= int(input())
209 country_name = set()
210 for i in range(n):
```

```
country_name.add(input())
211
212 print(len(country name))
213
214 #Introduction to sets
215 def average(array):
       n = set(array)
216
        return sum(n) / len(n)
217
218
219 #Set.union() Operation
220 n = int(input())
221 set one = set(map(int, input().split()))
222 b= int(input())
223 set_two = set(map(int,input().split()))
224 union = set_one.union(set_two)
225 print(len(union))
226
227 #Set.intersection() Operation
228 n = int(input())
229 set_one = set(map(int,input().split()))
230 b = int(input())
231 set_two = set(map(int,input().split()))
232 inters = set one.intersection(set two)
233 print(len(inters))
234
235 #Set.difference() Operation
236 n = int(input())
237 set_one = set(map(int, input().split()))
238 b = int(input())
239 set_two = set(map(int, input().split()))
240 diff = set one.difference(set two)
241 print(len(diff))
242
243 #Set.symmetric_difference() Operation
244 n = int(input())
245 set_one = set(map(int, input().split()))
246 b = int(input())
247 set two = set(map(int, input().split()))
248 symm = set one ^ set two
249 print(len(symm))
250
251 #Set Mutations
252 n = int(input())
253 a = set(map(int, input().split()))
254 num = int(input())
255 for i in range(num):
       m, _ = input().split()
256
       new_set = set(map(int, input().split()))
257
       if m == "update":
258
259
            a.update(new set)
260
       elif m == "intersection update":
261
            a.intersection_update(new_set)
        elif m == "difference update":
262
            a.difference update(new set)
263
```

```
264
        elif m == "symmetric_difference_update":
265
            a.symmetric_difference_update(new_set)
266 print(sum(a))
267
268 #The Captain's Room
269 k = int(input())
270 room = list(map(int,input().split()))
271 a = set(room)
272 cap= (sum(a) * k - sum(room)) // (k-1)
273 print(cap)
274
275 #Check Subset
276 set = int(input())
277 for el in range(test):
        set_a= int(input())
278
        a = set(map(int, input().split()))
279
        set b = int(input())
280
281
        b = set(map(int, input().split()))
282
        if a <= b:
283
            print(True)
284
285
        else:
            print(False)
286
287
288 #Check Strict Superset
289 a = set(map(int, input().split()))
290 n = int(input())
291
292 for el in range(n):
        b = set(map(int, input().split()))
293
        if not a.issuperset(b) or a == b:
294
            print(False)
295
296
            break
297 else:
        print(True)
298
299
300 #No Idea!
301 n, m = map(int, input().split())
302 arr = list(map(int, input().split()))
303 a= set(map(int, input().split()))
304 b= set(map(int, input().split()))
305 \text{ happiness} = 0
306 for i in arr:
        if i in a:
307
            happiness += 1
308
        elif i in b:
309
310
            happiness -= 1
311 print(happiness)
312
313 #The Minion Game
314 def minion_game(string):
315
        stuart = 0
316
        kevin = 0
```

```
31/
       \Lambda = .. \forall FIOO.
318
        n = len(string)
319
        for i in range(n):
            if string[i] in v:
320
                kevin += n - i
321
322
            else:
                stuart += n - i
323
324
        if stuart > kevin:
            print(f"Stuart {stuart}")
325
        elif kevin > stuart:
326
            print(f"Kevin {kevin}")
327
        else:
328
            print("Draw")
329
330
331 #Calendar Module
332 import calendar
333 month, day, year = map(int, input().split())
334 week day = calendar.weekday(year, month, day)
335 days= ["MONDAY", "TUESDAY", "WEDNESDAY", "THURSDAY", "FRIDAY", "SATURDAY", "SUNDAY"]
336
337 print(days[week_day])
338
339 #Time Delta
340 import math
341 import os
342 import random
343 import re
344 import sys
345 from datetime import datetime
346
347 def time delta(t1, t2):
348
        fmt = '%a %d %b %Y %H:%M:%S %z'
        dt1 = datetime.strptime(t1, fmt)
349
        dt2 = datetime.strptime(t2, fmt)
350
        delta seconds = abs(int((dt1 - dt2).total seconds()))
351
352
        return str(delta seconds)
353
354 #sWAP cASE
355 def swap_case(s):
       ml= list(s)
356
        for i in range(len(ml)):
357
            if ml[i].islower():
358
                ml[i]= ml[i].upper()
359
            elif ml[i].isupper():
360
                ml[i]=ml[i].lower()
361
        return "".join(ml)
362
363
364 #String Formatting
365 def print_formatted(number):
        x= format(number, "b")
366
        l = len(x)
367
368
369
        for i in range(1, number+1):
```

```
OCCAI = TORMAC(I, O)
            hexa = format(i,"X")
371
            bina = format(i,"b")
372
            print(str(i).rjust(l), str(octal).rjust(l), str(hexa).rjust(l), str(bina).rjus
373
374
375 #Set.discard().remove() &.pop()
376 n = int(input())
377 s = set(map(int, input().split()))
378 a = int(input())
379 for i in range(a):
        command = input().split()
380
        if command[0] == "pop":
381
382
            s.pop()
        elif command[0] == "discard":
383
            s.discard(int(command[1]))
384
        elif command[0] == "remove":
385
386
            s.remove(int(command[1]))
387
388 print(sum(s))
389
390 #Exceptions
391 n = int(input())
392 s = set(map(int, input().split()))
393 a = int(input())
394 for i in range(a):
        command = input().split()
395
        if command[0] == "pop":
396
397
            s.pop()
        elif command[0] == "discard":
398
399
            s.discard(int(command[1]))
        elif command[0] == "remove":
400
            s.remove(int(command[1]))
401
402
403 print(sum(s))
404
405 #Transpose and Flatten
406 import numpy as np
407
408 n, m = map(int, input().split())
409 arr = np.array([input().split() for i in range(n)], int)
410 print(np.transpose(arr))
411 print(arr.flatten())
412
413 #Concatenate
414 import numpy as np
415
416 n, m, p = map(int, input().split())
417 arr_1 = np.array([input().split() for _ in range(n)], int)
418 arr_2 = np.array([input().split() for _ in range(m)], int)
419 result = np.concatenate((arr_1, arr_2), axis=0)
420 print(result)
421
422 #Arrays
```

3 *1* 0

```
TZJ UCI airaya(air).
424
       arr= numpy.array(arr, float)
        return arr[::-1]
425
426
427 #Zeros and Ones
428 import numpy as np
429 arr= tuple(map(int, input().split()))
430 print(np.zeros(arr, dtype=int))
431 print(np.ones(arr, dtype= int))
432
433 #Eye and Identity
434 import numpy
435 numpy.set_printoptions(legacy='1.13')
436 n, m= map(int,input().split())
437 print(numpy.eye(n,m))
438
439 #Sum and Prod
440 import numpy
441 n, m= map(int,input().split())
442 arr = numpy.array([input().split() for _ in range(n)], int)
443 result_s = numpy.sum(arr, axis=0)
444 result_p = numpy.prod(result_s)
445
446 print(result_p)
447
448 #Text Alignment
449 thickness = int(input()) #This must be an odd number
450 c = 'H'
451
452 #Top Cone
453 for i in range(thickness):
454
        print((c*i).rjust(thickness-1)+c+(c*i).ljust(thickness-1))
455
456 #Top Pillars
457 for i in range(thickness+1):
        print((c*thickness).center(thickness*2)+(c*thickness).center(thickness*6))
458
459
460 #Middle Belt
461 for i in range((thickness+1)//2):
        print((c*thickness*5).center(thickness*6))
462
463
464 #Bottom Pillars
465 for i in range(thickness+1):
466
        print((c*thickness).center(thickness*2)+(c*thickness).center(thickness*6))
467
468 #Bottom Cone
469 for i in range(thickness):
        print(((c*(thickness-i-1)).rjust(thickness)+c+(c*(thickness-i-1)).ljust(thickness
470
471
472 #Array Mathematics
473 import numpy as np
474
475 n, m = map(int, input().split())
476 = -nn = nn = nn = (1ist(man(int innut() snlit())) for i in range(n)] int)
```

```
477 b = np.array([list(map(int,input().split())) for i in range(n)], int)
478 \text{ print}(a + b)
479 print(a - b)
480 print(a * b)
481 print(np.floor_divide(a, b))
482 print(a % b)
483 print(a ** b)
484
485 #Floor, Ceil and Rint
486 import numpy as np
487 np.set printoptions(legacy= '1.13')
488 a = np.array(list(map(float, input().split())))
489
490 print(np.floor(a))
491 print(np.ceil(a))
492 print(np.rint(a))
493
494 #Min and Max
495 import numpy as np
496 n,m = map(int, input().split())
497 my_arr = np.array([list(map(int, input().split())) for i in range(n)])
498
499 minimo = np.min(my_arr, axis= 1)
500 massimo = np.max (minimo)
501
502 print(massimo)
503
504 #Mean, var and Std
505 import numpy as np
506 n, m = map(int, input().split())
507 my_arr = np.array([(list(map(int, input().split()))) for i in range(n)])
508 print(np.mean(my_arr, axis=1))
509 print(np.var (my_arr, axis = 0))
510 print(np.round(np.std(my_arr, axis=None), 11))
511
512 #Dot and Cross
513 import numpy as np
514 n =int(input())
515
516 a = np.array([list(map(int,input().split())) for i in range(n)])
517 b = np.array([list(map(int,input().split())) for i in range(n)])
518
519 dot= np.dot(a,b)
520 print(dot)
521
522 #Inner and Outer
523 import numpy as np
524
525 a = np.array(list(map(int, input().split())))
526 b = np.array(list(map(int, input().split())))
527
528 print(np.inner(a, b ))
529 print(np.outer(a .h ))
```

```
530
531 #Polynomials
532 import numpy as np
534 c = list(map(float, input().split()))
535 x = float(input())
536
537 value = np.polyval(c, x)
538 print(value)
539
540 #Linear Algebra
541 import numpy as np
542 n= int(input())
543 a= np.array([list(map(float, input().split())) for i in range(n)])
544 det= np.linalg.det(a)
545 print(np.round(det ,2))
546
547 #Map and Lamba Function
548 cube = lambda x: x^{**}3
549
550 def fibonacci(n):
        if n==0:
551
552
            return []
       elif n==1:
553
            return [0]
554
555
        elif n==2:
            return [0,1]
556
557
        else:
            result = fibonacci(n-1)
558
559
            result.append(result[-1] + result[-2])
        return result
560
561
562 #Zipped!
563 n, x = map(int, input().split())
564 \text{ my} = []
565 for i in range(x):
       my_l.append(list(map(float, input().split())))
566
567 for m in zip(*my 1):
568
      print(sum(m)/len(m))
569
570 #Athlete Sort
571 import math
572 import os
573 import random
574 import re
575 import sys
576
577
578
579 if __name__ == '__main__':
        nm = input().split()
580
581
582
      n = int(nm[0])
```

```
583
584
       m = int(nm[1])
585
       arr = []
586
587
588
       for _ in range(n):
589
            arr.append(list(map(int, input().rstrip().split())))
590
591
       k = int(input())
592
       arr.sort(key=lambda x: x[k])
593
       for row in arr:
            print(*row)
594
595
596 #Collections.counter
597 from collections import Counter
598 input()
599 i = Counter(map(int, input().split()))
600 c = int(input())
601 p = 0
602
603 for _ in range(c):
604
       t, z = map(int, input().split())
       if i[t] > 0:
605
            p += z
606
            i[t] -= 1
607
608
609 print(p)
610
611 #Collections.namedtuple()
612 from collections import namedtuple
613 n = int(input())
614 columns = input().split()
615 students = namedtuple('students', columns)
616 tm = []
617 for i in range(n):
       student = students(*input().split())
618
       tm.append(int(student.MARKS))
619
620
621 print(round(sum(tm)/len(tm), 2))
622
623 #DefaultDict Tutorial
624 from collections import defaultdict
625 n, m = map(int, input().split())
626 A= defaultdict(list)
627 for i in range(n):
       w = input()
628
629
       A[w].append(i+1)
630 for _ in range(m):
631
       w= input()
       if w in A:
632
            print(" ".join(map(str, A[w])))
633
634
       else:
635
            print(-1)
```

```
636
637 #Collections.OrderedDict()
638 from collections import OrderedDict
639 dic = OrderedDict()
640 n = int(input())
641 for i in range(n):
        *item_name, price = input().split()
642
        item_name = " ".join(item_name)
643
        price = int(price)
644
645
        if item_name in dic:
646
            dic[item_name] += price
647
        else:
648
649
            dic[item name] = price
650
651 for item, price in dic.items():
        print(item, price)
652
653
654 #Collections.deque()
655 from collections import deque
656 d = deque()
657 n = int(input())
658 for i in range(n):
       o = input().split()
659
        c = o[0]
660
661
        if c == "append":
662
            d.append(int(o[1]))
663
        if c == "pop":
664
665
            d.pop()
        if c == "appendleft":
666
            d.appendleft(int(o[1]))
667
        if c== "popleft":
668
669
            d.popleft()
670
671 print(" ".join(map(str, d)))
672
673 #Word Order
674 n = int(input())
675 \, dic = \{\}
676
677 for i in range(n):
678
       w = input()
       if w in dic:
679
            dic[w] += 1
680
681
        else:
682
            dic[w] = 1
683
684 print(len(dic))
685 print(*dic.values())
686
687 #Company Logo
688 import math
```

```
689 import os
690 import random
691 import re
692 import sys
693 from collections import Counter
694
695
696 if __name__ == '__main__':
        s = input().strip()
697
        counter = Counter(s)
698
        sorted counter = sorted(counter.items(), key=lambda x: (-x[1], x[0]))
699
700
701
       for i in range(3):
            print(f"{sorted_counter[i][0]} {sorted_counter[i][1]}")
702
            # i looked the solutions
703
704
705 #Piling Up!
706 from collections import deque
707
708 for _ in range(int(input())):
709
        n = int(input())
710
        blocks = deque(map(int, input().split()))
        possible = True
711
712
        last = max(blocks[0], blocks[-1])
713
       while blocks:
            if blocks[0] >= blocks[-1]:
714
715
                current = blocks.popleft()
716
            else:
717
                current = blocks.pop()
718
            if current > last:
                possible = False
719
720
                break
721
            last = current
        print("Yes" if possible else "No")
722
723
724
        #i looked the solutions
725
726 #Alphabet Rangoli
727 def print rangoli(size):
728
        import string
729
        alpha = string.ascii lowercase
        lines = []
730
        for i in range(size):
731
            s = "-".join(alpha[size-1:i:-1] + alpha[i:size])
732
733
            lines.append(s.center(4 * size - 3, '-'))
        print('\n'.join(lines[::-1] + lines[1:]))
734
735
736 #Decorators 2- Name directory
737 def person_lister(f):
738
        def inner(people):
            return [f(person) for person in sorted(people, key=lambda person: int(person[
739
        return inner
740
741
```

```
742
        # i looked the solutions
743
744 #Merge the tools!
745 def merge_the_tools(string, k):
        for i in range(0, len(string), k):
746
            substring = string[i:i+k]
747
            result = ""
748
749
            for char in substring:
750
                if char not in result:
751
                     result += char
752
            print(result)
753
754 #i looked the solutions
755
756 #Standardize Mobile Number Using Decorators
757 def wrapper(f):
        def fun(1):
758
            1 = ['+91' + p[-10:-5] + '' + p[-5:] for p in [num.strip()[-10:] for num in
759
760
            f(1)
761
        return fun
762 #i looked the solutions
763
764 #Detect Floating point Number
765 t = int(input())
766 for i in range(t):
767
        n = input().strip()
        if n.startswith(('+', '-')) or '.' in n:
768
769
            try:
770
                if float(n):
771
                     print(True)
772
            except ValueError:
773
                print(False)
774
        else:
775
            print(False)
776
777 #ginortS
778 def order letters(s):
779
        lower = []
780
        upper = []
        odd = []
781
        even = []
782
783
784
        for i in s:
            if i.islower():
785
                lower.append(i)
786
            elif i.isupper():
787
                upper.append(i)
788
            elif i.isdigit():
789
                if int(i) % 2 != 0:
790
                     odd.append(i)
791
792
                else:
793
                     even.append(i)
794
```

```
795
796
       lower.sort()
797
       upper.sort()
       odd.sort()
798
       even.sort()
799
800
801
       result = ''.join(lower + upper + odd + even)
802
803
804
       return result
805
806
807 if __name__ == "__main__":
808
       s = input()
809
       print(order_letters(s))
810
811
812 #-----PROBLEM 2------
813 #Birthday Cake Candles
814 import math
815 import os
816 import random
817 import re
818 import sys
819
820 def birthdayCakeCandles(candles):
821
       max_height = max(candles)
       count = candles.count(max height)
822
       return count
823
824
825 if name == ' main ':
       fptr = open(os.environ['OUTPUT_PATH'], 'w')
826
827
       candles_count = int(input().strip())
828
829
       candles = list(map(int, input().rstrip().split()))
830
831
       result = birthdayCakeCandles(candles)
832
833
       fptr.write(str(result) + '\n')
834
835
836
       fptr.close()
837
838 #Number Line Jump
839 import math
840 import os
841 import random
842 import re
843 import sys
844
845 def kangaroo(x1, v1, x2, v2):
846
847
       if v1==v2:
```

```
1T XI == XZ:
849
                return "YES"
850
            else:
851
                return "NO"
        if (x2 - x1) \% (v1-v2) == 0 and (x2-x1) / (v1 - v2) > 0:
852
            return "YES"
853
854
        else:
855
            return "NO"
856
857
858 if __name__ == '__main__':
859
        fptr = open(os.environ['OUTPUT_PATH'], 'w')
860
        first_multiple_input = input().rstrip().split()
861
862
        x1 = int(first_multiple_input[0])
863
864
        v1 = int(first multiple input[1])
865
866
        x2 = int(first multiple input[2])
867
868
        v2 = int(first multiple input[3])
869
870
        result = kangaroo(x1, v1, x2, v2)
871
872
873
        fptr.write(result + '\n')
874
        fptr.close()
875
876
877
878 print(kangaroo(x1, v1, x2, v2))
879
880 #Viral Advertising
881 import math
882 import os
883 import random
884 import re
885 import sys
886
887 def viralAdvertising(n):
        p = 5
888
889
        c = 0
890
       like_today=0
891
       for i in range(n):
892
            like today = p//2
893
            c += like today
894
895
            p = like_today*3
896
        return c
897
898 if name == ' main ':
        fptr = open(os.environ['OUTPUT_PATH'], 'w')
899
900
```

```
902
       result = viralAdvertising(n)
903
904
       fptr.write(str(result) + '\n')
905
906
       fptr.close()
907
908
909 #Recursive Digit Sum
910 def superDigit(n, k):
911
       c = str(sum(int(i) for i in str(n)))*k
912
       t=0
913
       a=0
       for i in c:
914
915
            t += int(i)
       while len(str(t))>1:
916
917
            a=0
918
            for i in str(t):
                a+= int(i)
919
920
            t=a
921
        return a
922
923 if __name__ == '__main__':
       fptr = open(os.environ['OUTPUT_PATH'], 'w')
924
925
       first_multiple_input = input().rstrip().split()
926
927
       n = first_multiple_input[0]
928
929
        k = int(first_multiple_input[1])
930
931
       result = superDigit(n, k)
932
933
       fptr.write(str(result) + '\n')
934
935
       fptr.close()
936
937
938 #Inserion Sort 1
939 import math
940 import os
941 import random
942 import re
943 import sys
944
945 def insertionSort1(n, arr):
        e = arr[-1]
946
947
        for i in range(n-2, -1, -1):
            if arr[i] > e:
948
                arr[i+1] = arr[i]
949
950
                print(*arr)
951
            else:
952
                arr[i+1] = e
953
                print(*arr)
                hnoole
```

201

```
955
         else:
             arr[0]= e
 956
 957
             print(*arr)
958
959 if __name__ == '__main__':
 960
         n = int(input().strip())
961
         arr = list(map(int, input().rstrip().split()))
962
963
         insertionSort1(n, arr)
964
965
 966 #Insertion Sort 2
967 import math
968 import os
 969 import random
970 import re
971 import sys
 972
973 def insertionSort2(n, arr):
974
         for i in range(1, n):
             k = arr[i]
975
             for j in range(i - 1, -2, -1):
976
                 if j \ge 0 and arr[j] > k:
 977
 978
                      arr[j + 1] = arr[j]
979
                 else:
                      arr[j + 1] = k
980
                      break
 981
982
             print(*arr)
983
 984 if __name__ == '__main__':
         n = int(input().strip())
 985
986
         arr = list(map(int, input().rstrip().split()))
 987
 988
         insertionSort2(n, arr)
 989
 990
 991
992
 993
 994
995
996
997
998
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1000
1001
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```

1008 1009 1010



Mostra output nascosti

Nuova sezione