elif n>20: ans = "Not Weird" elif n>=6: ans = "Weird" else: ans = "Not Weird" print(ans) Not Weird Day - 4 In [1]: class Person: def __init__(self,initialAge): # Add some more code to run some checks on initialAge if(initialAge > 0): self.age = initialAge else: print("Age is not valid, setting age to 0.") self.age = 0def amIOld(self): # Do some computations in here and print out the correct stateme nt to the console if self.age >= 18: print("You are old.") elif self.age >= 13: print("You are a teenager.") **else**: # age < 13 print("You are young.") def yearPasses(self): # Increment the age of the person in here self.age += 1 t = int(input()) for i in range(0,t): age = int(input()) p = Person(age) p.amIOld() for j in range(0,3): p.yearPasses() p.amIOld() print("") 2 18 You are old. You are old. 32 You are old. You are old. **Day - 5** In [7]: inp = int(input()) for i in range(10): print(inp ,'x', i ,'=', inp*i) $3 \times 0 = 0$ $3 \times 1 = 3$ $3 \times 2 = 6$ $3 \times 3 = 9$ $3 \times 4 = 12$ $3 \times 5 = 15$ $3 \times 6 = 18$ $3 \times 7 = 21$ $3 \times 8 = 24$ $3 \times 9 = 27$ Day - 6 In [15]: s = input() for i in range(0 , len(s) , 2): print(s[i]) for j in range(1 , len(s) , 2): print(s[j]) anshul a S u n h 1 Day - 7 In [20]: a = [4, 2, 3, 1]**for** i **in** range(len(a)-1 , -1, -1): print(a[i]) 1 3 2 4 **Day - 8** In [4]: | dict = {} for i in range(4): name = input() phone = input() dict[name] = []#dict[phone] = [] dict[name].append(phone) #dict[phone].append(phone) print(dict) key_list = list(dict.keys()) val_list = list(dict.values()) position = key_list.index(input()) print(val_list[position]) anshul 1 arham saumya nishant {'anshul': ['1'], 'arham': ['2'], 'saumya': ['3'], 'nishant': ['4']} anshul ['1'] Day - 9 In [5]: def factorial(n): **if** n<=1: return 1 else: return n*factorial(n-1) n = int(input()) print(factorial(n)) 188549470166605025498793226086114655823039453537932933567248798296184404 34955379231177299722240000000000000000000 Day - 10 In [7]: **def** max(a,b): return a if a>b else b n = int(input().strip()) $max_num = 0$ count = 0while n: while n&1: count += 1 n>>=1 max_num = max(count, max_num) if not n&1: count = 0 n>>=1 print(max_num) 15 4 Day - 11 In [15]: import numpy as np arr = np.array([[1,1,1,0,1,0], [0,1,0,0,0,0], [1,2,3,1,2,3], [0,0,0,0]),1,0] , [1,1,1,1,1] , [1,2,3,0,2,3]]) max = 0n = len(arr)for i in range(0, n-2): for j in range(0, n-2): sum= arr[i][j]+arr[i][j+1]+arr[i][j+2]+arr[i+1][j+1]+arr[i+2][j] +arr[i+2][j+1]+arr[i+2][j+2] **if** i==0 **and** j==0: max = sumif sum > max: max = sumprint(max) 10 Day - 12 In []: Day - 13 In []: Day - 14 In [4]: class Difference: def __init__ (self, elements_): self.elements_ = elements_ def maximum_difference(self): return max(self.elements_) - min(self.elements_) diff = Difference([1 , 11 , 34 , 23 , 16 , 13 ,1]) diff.maximum_difference() Out[4]: 33 Day - 15 In [22]: def insert(self, head, data): if head is None: head = Node(data)elif head.next is None: head.next = Node(data)else: self.insert(head.next, data) **return** head Day - 16 In [3]: S = input() try: r = int(S)print(r) except ValueError: print("Bad String") anshul Bad String Day - 17 In [6]: class Calculator(Exception): def power(self,n,p): **if** (n<0 **or** p<0): raise Calculator("n and p should be non-negative") else: return pow(n,p) Day - 18 In [14]: class Solution: def __init__ (self): self.stack = [] self.queue = [] def push_char(self, ch): self.stack.append(ch) def enqueue_char(self, ch): self.queue.append(ch) def pop_char(self): try: x = self.stack[-1]self.stack = self.stack[:-1] return x except: return None def dequeue(self): try: x = self.queue[0]self.queue = self.queue[1:] return x except: return None sol = Solution() S = 'bannab' for c in S: sol.push_char(c) sol.enqueue_char(c) flag = True while True: from_stack = sol.pop_char() from_queue = sol.dequeue() if from_stack == None: break if from_stack != from_queue: flag = **False** break if flag: print("Palindrome") else: print("Not Palindrome") Palindrome Day - 19 In [6]: class AdvancedArithmetic(object): def divisorSum(n): raise NotImplementedError class Calculator(AdvancedArithmetic): def divisorSum(self, n): s = 0for i in range(1, n+1): **if** (n%**i** == 0): s+=i return s Day - 20 In [8]: | n = int(input().strip()) a = list(map(int, input().strip().split(' '))) numberOfSwaps = 0for i in range(0, n): for j in range(0, n-1): **if** (a[j] > a[j + 1]): temp=a[j] a[j] = a[j+1]a[j+1] = tempnumberOfSwaps += 1 if (numberOfSwaps == 0): break print("Array is sorted in " + str(numberOfSwaps) + " swaps.") print("First Element: " + str(a[0])) print("Last Element: " + str(a[n-1])) 3 7 2 8 4 9 Array is sorted in 4 swaps. First Element: 2 Last Element: 9 Day - 21 Cant be done in python Day - 22 In [34]: def getHeight(self,root): if root is None or (root.left is None and root.right is None): return 0 else: return max(self.getHeight(root.left), self.getHeight(root.rig ht))+1 Day - 23 In [23]: def levelOrder(self,root): output = "" queue = [root] while queue: current = queue.pop(0) output += str(current.data) + " " if current.left: queue.append(current.left) if current.right: queue.append(current.right) print(output[:-1]) Day - 24 In [24]: def removeDuplicates(self, head): #Write your code here current = head while (current.next): if (current.data == current.next.data): current.next = current.next.next current = current.next return head Day - 25 In [26]: import math def check_prime(num): if num is 1: return "Not prime" sq = int(math.sqrt(num)) for x in range(2, sq+1): if num % x is 0: return "Not prime" return "Prime" t = int(input()) for i in range(t): number = int(input()) print(check_prime(number)) 4 1 Not prime Prime 3 Prime Not prime Day - 26 In [29]: da, ma, ya = input().split(' ') da = int(da)ma = int(ma)ya = int(ya)de, me, ye = input().split(' ') de = int(de)me = int(me)ye = int(ye)fine = 0if(ye==ya): if(me < ma):</pre> fine = (ma - me) * 500elif((me == ma) and (de < da)):fine = (da - de) * 15elif(ye < ya):</pre> fine = 10000print(fine) 4 5 6 4 5 6 Day - 27 In [30]: def minimum_index(seq): **if** len(seq) == 0: raise ValueError("Cannot get the minimum value index from an emp ty sequence") $min_idx = 0$ for i in range(1, len(seq)): if seq[i] < seq[min_idx]:</pre> $min_idx = i$ return min_idx class TestDataEmptyArray(object): @staticmethod def get_array(): return [] class TestDataUniqueValues(object): @staticmethod def get_array(): return [7, 4, 3, 8, 14] @staticmethod def get_expected_result(): return 2 class TestDataExactlyTwoDifferentMinimums(object): @staticmethod def get_array(): return [7, 4, 3, 8, 3, 14] @staticmethod def get_expected_result(): return 2 Day - 28 In [32]: import sys import re N = int(input().strip()) names = []for a0 in range(N): firstName,emailID = input().strip().split(' ') firstName, emailID = [str(firstName), str(emailID)] match = re.search(r'[\w\.-]+@gmail.com', emailID) if match: names.append(firstName) names.sort() **for** name **in** names: print(name) anshul a@gmsil.com piyu p@yahoo.com Day - 29 In [33]: import sys

t = int(input().strip())

n, k = [int(n), int(k)]

n, k = input().strip().split(' ')

print(k-1 if ((k-1) | k) <= n else k-2)</pre>

for a0 in range(t):

In []:

ANSHUL SAVLA

print('Hello World')

J053

Day - 0

In [1]: | var = input()

Day - 1

d = 4.0

s = 'HackerRank '

ii = int(input())
dd = float(input())

HackerRank anshul

tip = cost*0.15tax = cost*0.08

print(np.round(tip+tax+cost,0))

ss = input()

print(i+ii)
print(d+dd)
print(s+ss)

4 2.3 anshul 8 6.3

Day - 2

123.0

Day - 3

In [6]: | n = int(input())

if n%**2**==1:

ans = "Weird"

In [2]: i = 4

print(var)

Hello Anshul Hello World Hello Anshul