# Lambda funksiyasi  
# x = lambda a:a+10  
# print(x(5))  
  
# 2-misol  
# y = lambda b,a: a\*b  
# print(y(3,6))  
  
# 3-misol  
# a=int(input('a='))  
# b=int(input('b='))  
# c=int(input('c='))  
# y=lambda a,b,c: a+b+c  
# print(y(a,b,c))  
  
# 4-misol  
# def fun(s):  
# return lambda a: a\*s  
# natija=fun(5)  
# print(natija(6))  
  
# 5-misol  
# son = int(input('soni kiriting: '))  
# print(bin(son)) #ikkilik  
# print(oct(son)) #sakkizlik  
# print(hex(son)) #o'n oltilik  
  
# import math  
# print(dir(math))  
  
  
# import os  
# print(dir(os))  
  
# import platform  
# x=platform.system()  
# print(x)  
  
# import platform  
# x=platform.uname()  
# print(x)  
  
# import platform  
# x= platform.node()  
# print(x)  
  
# import platform  
# x=platform.uname\_result  
# print(x)  
  
# a = b = ''  
# while type(a) != int or type(b) !=int:  
# a=input('a=')  
# b=input('b=')  
# try:  
# a=int(a)  
# b=int(b)  
# except ValueError:  
# print("input integers ")  
# try:  
# c=a/b  
# except ZeroDivisionError:  
# print('xatolik mavjud')  
# else:  
# print(c)  
  
# a=[1.2,1.8,3.2,2.5,1.7,2.6,0.5]  
# print("s-stop")  
# while True:  
# indx = input(" ID:")  
# if indx=='s':  
# break  
# try:  
# indx = int(indx)  
# print(a[indx])  
# except ValueError:  
# print("Butun son bolishi kerak")  
# except IndexError:  
# print("no item with ID = ", indx)  
  
# lst = ['a','b','c','d','e','f']  
# letter= input('a=')  
# if letter in lst:  
# print(1)  
# else:  
# raise ValueError('No such letter')  
  
# from random import randint  
# yashirin\_son = randint(1,100)  
# foydalanadigan\_son = -1  
# try\_count=1  
# while yashirin\_son != foydalanadigan\_son:  
# print("%d try: " % try\_count,end='')  
# user\_son=int(input())  
# if foydalanadigan\_son< yashirin\_son:  
# print("Juda kam")  
# elif foydalanadigan\_son > yashirin\_son:  
# print("Juda kop")  
# else:  
# print("You gaessed it!")  
# try\_count+=  
  
# for i in range (1,225):  
# print(chr(i), end=' ')  
# if (i - 1) % 10==0:  
# print()  
# print()  
  
# a=input('Birinchi\_qiymat: ')  
# b=input('Ikkinchi\_qiymat: ')  
# while a<= b:  
# print(a, end= '')  
# a=chr(ord(a)+1)  
# print()  
  
# i=1  
# while i<10:  
# j=1  
# while j<10:  
# print("%4d" % (i\*j), end= "")  
# j+=1  
# print()  
# i+=1  
  
  
# a = int(input("1-son"))  
# b= int(input("2-son(2-9)"))  
# if not (2<=b<=9):  
# quit()  
#  
# newnum = ''  
# while a>0:  
# newnum=str(a%b)+newnum  
# a//=b  
# print(newnum)  
  
  
#  
# from math import pi  
# r=input("Radius of the orbit(million km): ")  
# v=input("Orbital speed (km/s): ")  
# r=float(r)  
# v=float(v)  
# r = r\*1000000  
# year=2\*pi\*r/v  
# year= year/(60\*60\*24)  
# print(round(year))  
  
# import math  
# r=input("Radius= ")  
# r=float(r)  
# ln=2\*math.pi\*r  
# area=math.pi\*math.pow(r,2)  
# print("Length= %2f"%ln)  
# print("Area= %2f"%area)  
  
# c=input("harf(a-z)")  
# n=ord(c)-ord('a')+1  
# print("Its number is %d" %n)  
  
# n1=input('Binary n1: ')  
# n2=input('Binary n2: ')  
# print()  
#  
# n1=int(n1,2)  
# n2=int(n2,2)  
#  
# bit\_or=n1 | n2  
# bit\_and=n1 & n2  
# bit\_xor=n1^n2  
#  
# bit\_or=bin(bit\_or)  
# bit\_and=bin(bit\_and)  
# bit\_xor=bin(bit\_xor)  
#  
# print("n1: %10s" %bin(n1))  
# print("n2: %10s" % bin(n2))  
# print(" --------")  
# print("OR: %10s" % bit\_or)  
# print("AND: %10s" % bit\_and)  
# print("XOR: %10s" % bit\_xor)  
  
# s = input("s=")  
# l = len(s)  
# i = 0  
# while i < l:  
# num = ''  
# symbol = s[i]  
# while symbol.isdigit():  
# num += symbol  
# i += 1  
# if i < l:  
# symbol = s[i]  
# else:  
# break  
# if num != '':  
# print(num)  
# i += 1  
  
  
# from random import randint  
# n=7  
# a=[0]\*n  
# for i in range(n):  
# a[i]=randint(0,100)  
# print(a[i],end=' ')  
# print()  
# maximum=-1  
# minimum= 101  
# for i in a:  
# if i>maximum:  
# maximum=i  
# if i<minimum:  
# minimum=i  
# print("Maximum:",maximum)  
# print("Minimum:",minimum)  
  
# a = [3, 5, 7, 3, 8, 1, 8, 1, 7, 3, 2,  
# 4, 6, 8, 5, 4, 3, 3, 6, 5, 7, 8,  
# 9, 5, 3, 2, 3]  
# count\_1\_3 = 0  
# count\_4\_6 = 0  
# count\_7\_9 = 0  
# for i in a:  
# if 1 <= i <= 3:  
# count\_1\_3 += 1  
# elif 4 <= i <= 6:  
# count\_4\_6 += 1  
# elif 7 <= i <= 9:  
# count\_7\_9 += 1  
# print("Range 1-3: ", count\_1\_3)  
# print("Range 4-6: ", count\_4\_6)  
# print("Range 7-9: ", count\_7\_9)  
  
# from random import randint  
# n=10  
# a=[]  
# suma =0  
# for i in range(n):  
# a.append(randint(0,9))  
# print(a[i],end=' ')  
# suma+=a[i]  
# print()  
# average= suma/n  
# print("The average: %.2f" % average)  
# for i in a:  
# if i>  
  
# from random import randint  
#  
#  
# def search(lst, item):  
# mid = len(lst) // 2  
# low = 0  
# high = len(lst) - 1  
# while lst[mid] != item and low <= high:  
# if item > lst[mid]:  
# low = mid + 1  
# else:  
# high = mid - 1  
# mid = (low + high) // 2  
# if low > high:  
# return None  
# else:  
# return mid  
#  
#  
# a = []  
# for i in range(10):  
# a.append((randint(1,20)))  
# a.sort()  
# print(a)  
# value = int(input('a='))  
# print(search(a, value))