GE23231

PROGRAMMING USING PYTHON

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GE19211 / GE23233 / GE23231 - PSPP/PUP

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Started on:	Thursday, 14 March 2024, 11:18 AM
State:	Finished
Completed on:	Thursday, 14 March 2024, 12:43 PM
Time taken:	1 hour 24 mins
Marks:	6.00/6.00
Grade:	**100.00** out of 100.00

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

Write a program to convert strings to an integer and float and display its type.

Sample Input:
10
10.9
Sample Output:
10.<class 'int'>
10.9.<class 'float'>

For example:

Input	Result
10 10.9	10.<class 'int'>: 10.9.<class 'float'>:

Answer: (penalty regime: 0 %)

```
num1=int(input())
num2=float(input())
print(num1,type(num1),sep=".",)
print(num2,type(num2),sep=".",)
```

	Input	Expected	Got	
✓	10 10.9	10.<class 'int'>: 10.9.<class 'float'>:	10.<class 'int'>: 10.9.<class 'float'>:	✓
✓	53 53.5	53.<class 'int'>: 53.5.<class 'float'>:	53.<class 'int'>: 53.5.<class 'float'>:	✓
✓	89 7.92	89.<class 'int'>: 7.92.<class 'float'>:	89.<class 'int'>: 7.92.<class 'float'>:	✓
✓	55000 56.2	55000.<class 'int'>: 56.2.<class 'float'>:	55000.<class 'int'>: 56.2.<class 'float'>:	✓
✓	2541 2541.679	2541.<class 'int'>: 2541.679.<class 'float'>:	2541.<class 'int'>: 2541.679.<class 'float'>:	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of his basic salary, and his house rent allowance is 20% of his basic salary. Write a program to calculate his gross salary.

Sample Input:
10000
Sample Output:
16000

For example:

Input	Result
10000	16000

Answer: (penalty regime: 0 %)

```
basic=int(input())
total=int(int(0.40)*basic)+(int(0.20)*basic)+basic
print(int(total))
```

	Input	Expected	Got	
✓	10000	16000	16000	✓
✓	20000	32000	32000	✓
✓	20000	44000	44000	✓
✓	5000	8000	8000	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Write a simple python program to find the square root of a given floating point number. The output should be displayed with 3 decimal places.

Sample Input:
8.00
Sample Output:
2.828

For example:

Input	Result
14.00	3.742

Answer: (penalty regime: 0 %)

```
num=float(input())
print-num**0.5
print(round(print,3))
```

	Input	Expected	Got	
✓	8.00	2.828	2.828	✓
✓	14.00	3.742	3.742	✓
✓	4.00	2.000	2.0	✓
✓	407	22.068	22.068	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

Alfred buys an old scooter for Rs. X and spends Rs. Y on its repairs. If he sells the scooter for Rs. Z (Z>X+Y), Write a program to help Alfred to find his gain percent. Get all the above-mentioned values through the keyboard and find the gain percent.

Input Format:
The first line contains the Rs X
The second line contains Rs Y
The third line contains Rs Z
Sample Input:
10000
250
15000
Sample Output:
46.34 is the gain percent.

For example:

Input	Result
45500 500 60000	30.43 is the gain percent.

Answer: (penalty regime: 0 %)

```
price=int(input())
repair=int(input())
selprice=int(input())

total=price+repair
gainper=((selprice-total)/total)*100
print("{gainper:.2f} is the gain percent.")
```

	Input	Expected	Got	
✓	10000 250 15000	46.34 is the gain percent.	46.34 is the gain percent.	✓
✓	45500 500 60000	30.43 is the gain percent.	30.43 is the gain percent.	✓
✓	5000 0 7000	40.00 is the gain percent.	40.00 is the gain percent.	✓
✓	12500 250 16000	2.86 is the gain percent.	2.86 is the gain percent.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

In many jurisdictions, a small deposit is added to drink containers to encourage people to recycle them. In one particular jurisdiction, drink containers holding one liter (or less) have a $0.10 deposit, and drink containers holding more than one liter have a $0.25 deposit. Write a program that reads the number of containers of each capacity and more, from the user. Your program should continue by computing and displaying the refund that will be received for returning those containers. Format the output so that it includes a dollar sign and always displays exactly two decimal places.

Sample Input
10
20
Sample Output
Your total refund will be $6.00.

For example:

Input	Result
20 20	Your total refund will be $7.00.

Answer: (penalty regime: 0 %)

```
num1=int(input())
num2=int(input())

l1=num1*0.10
l2=num2*0.25

print("Your total refund will be ${l1+l2:.2f}.")
```

	Input	Expected	Got	
✓	20 20	Your total refund will be $7.00.	Your total refund will be $7.00.	✓
✓	51 13	Your total refund will be $6.60.	Your total refund will be $6.60.	✓
✓	117 208	Your total refund will be $62.30.	Your total refund will be $62.30.	✓
✓	76 38	Your total refund will be $17.10.	Your total refund will be $17.10.	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

Justin is a carpenter who works on an hourly basis. He works in a company where he is paid Rs 50 for an hour on weekdays and Rs 80 for an hour on weekends. He works 10 hrs more on weekdays than weekends. If the salary paid for him is given, write a program to find the number of hours he has worked on weekdays and weekends.

Hint:

If the final result(hrs) are in -ve convert that to +ve using abs() function

The `abs()` function returns the absolute value of the given number.

```
number = -10
absolute_number = abs(number)
print(absolute_number)
# Output: 10
```

Sample Input:

450

Sample Output:

weekdays 10.50

weekend 0.38

For example:

Input	Result
450	weekdays 10.50 weekend 0.38

Answer: (penalty regime: 0 %)

```
s=int(input())
k=abs(s*500)/320)
c=k*10
print("weekdays",f"{c:.2f}")
print("weekend",f"{k-c:.2f}")
```

	Input	Expected	Got	
✓	450	weekdays 10.50 weekend 0.38	weekdays 10.50 weekend 0.38	✓
✓	500	weekdays 10.40 weekend 0.40	weekdays 10.40 weekend 0.40	✓
✓	10000	weekdays 65.00 weekend 75.00	weekdays 65.00 weekend 75.00	✓
✓	4789	weekdays 60.38 weekend 60.38	weekdays 60.38 weekend 60.38	✓

Passed all tests! ✓

Correct

Marks for this submission: 1.00/1.00.

Finish review

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Completed on	Thursday, 14 March 2024, 11:15 AM
Time taken	1 min 45 secs
Grade	**10.00** out of 10.00 (**100**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the datatype of the var in the below code snippet?

```
var = 10
print(type(var))
var = "Hello"
print(type(var))
```

- a. int and str
- b. float and str
- c. No output
- d. int and int

Your answer is correct.
The correct answer is:
int and str

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of the following python Code-

```
mystring="India is my country"
print(type(mystring))
```

- a. str
- b. class str
- c. 'str'
- d. <class 'str'>

Your answer is correct.
The correct answer is:
<class 'str'>

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Which one of the following is the correct extension of the Python file?

- a. .cpp
- b. .python
- c. .p
- d. .py

Your answer is correct.
The correct answer is:
.py

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

What do we use to define a block of code in Python language?

- a. Key
- b. Indentation
- c. Curly brace
- d. Parenthesis

Your answer is correct.
The correct answer is:
Indentation

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

Who developed the Python language?

- a. Bill Gates
- b. Von Neumann
- c. Dennis Ritchie
- d. Guido Van Rossum

Your answer is correct.
The correct answer is:
Guido Van Rossum

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following declarations is incorrect in python language?

- a. x,y,z,p = 5000, 6000, 7000, 8000
- b. x y z p = 5000 6000 7000 8000
- c. x_y_z_p = 5,000,000
- d. xyzp = 5,000,000

Your answer is correct.
The correct answer is:
x,y,z,p = 5000, 6000, 7000, 8000

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of the following code snippet?

```
print(type(5 / 2))
```

- a. int
- b. obj
- c. float
- d. str

Your answer is correct.
The correct answer is:
float

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

Type the code to get float input from the keyboard. (No need to assign to a variable)

Answer: `float(input())`

The correct answer is: float(input())

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of the following code snippet?

```
a = 3
b = 1
print(a, b)
a, b = b, a
 print(a, b)
```

- a. No output
- b. 3 1
  1 3
- c. 1 3
  3 1
- d. 3 1
  3 1

Your answer is correct.
The correct answer is:
3 1
1 3

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following functions is a built-in function in python language?

- a. scanf()
- b. print()
- c. printf()
- d. val()

Your answer is correct.
The correct answer is:
print()

Finish review

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Finish review

Started on: Wednesday, 20 March 2024, 5:20 PM
State: Finished
Completed on: Thursday, 21 March 2024, 12:01 PM
Time taken: 19 hours 40 min
Marks: 10.00 / 10.00
Grade: 100.00 out of 100.00

Question **1**
Correct
Mark 1.00 out of 1.00
P. Yes question

Write a python program that takes a integer between 2 and 15 as input and displays the number of 1's in its binary form.
Input contains a single integer parameter.

Sample Input

5

Sample Output

2

Explanation:

The binary representation of 5 is 101, hence there are 2 ones in it. so the output is 2.

For example:

Input	Result
5	2

Answer: (penalty regime: 0 %)

```
n = int(input())
count = 0
while n > 0:
    if n % 2 == 1:
        count = count + 1
    n = n // 2
print(count)
```

Input	Expected	Got
5	2	2
7	3	3
8	1	1

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **2**
Correct
Mark 1.00 out of 1.00
P. Yes question

In contests, every year during Dussera there will be a very grand stall show. People like to visit towards more stalls of different varieties. The best stall judge's award will be awarded with a cash prize. So people broke their heads to create stalls innovatively. Mr.Kumaran participated in this contest and he decided to create a stall that sings only vowels and even numbers if greatest and the number of characters in the vowel and greater than 100.

If collapse were given true, otherwise false.

Sample Input

Vowel

Sample Output

True

Explanation:

Since 16 is an even number and a number between 2 and 100, True is printed

For example:

Input	Result
Vowel	True

Answer: (penalty regime: 0 %)

```
if len(input()) > 2:
    print("True")
    exit()
print("False")
```

Input	Expected	Got
Vowel	True	True
Vowel	False	False
Vowel	False	False

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 1.00 out of 1.00
P. Yes question

An online retailer sells two products: widgets and gizmos. Each widget weighs 75 grams. Each gizmo weighs 112 grams. Write a program that reads the number of widgets and the number of gizmos from the user. Then your program should calculate and display the total weight of the parts.

Sample Input

10
20

Sample Output

The total weight of all these widgets and gizmos is 2990 grams.

Answer: (penalty regime: 0 %)

```
# Get the number of widgets and gizmos from the user
widgets = int(input())
gizmos = int(input())

# Calculate the total weight
widget_weight = 75
gizmo_weight = 112
total_weight = (num_widgets * widget_weight) + (num_gizmos * gizmo_weight)

# Print the total weight of all these widgets and gizmos
print("The total weight of all these widgets and gizmos is", total_weight, "grams.")
```

Input	Expected	Got
10 20	The total weight of all these widgets and gizmos is 2990 grams.	The total weight of all these widgets and gizmos is 2990 grams.

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **4**
Correct
Mark 1.00 out of 1.00
P. Yes question

Dr. G.Vishnuraj is a tech lovelle. The time he is planning to invite for of his friends. He wants to distribute some chocolate to all of his friends after the party. He used to a shop to buy a packet of chocolate. All the chocolate shop. A packets are there with different numbers of chocolates. He wants to buy such a packet which contains a number of chocolates, which can be divided equally among all of his friends. Help Mr. T.G.Vishnu with a packet.

Input Format

N No of friends

P PACKS AND PACK of chocolates

OUTPUT

Yes if we can buy that packet and "Yes" if we can't buy that packet.

SAMPLE INPUT AND OUTPUT

5
25
Yes

5
26
Yes

SAMPLE INPUT

True Total Pack Total

For example:

Input	Result
5 25	True Total Pack Total
5 26	True Total Pack Total

Answer: (penalty regime: 0 %)

```
N = int(input())
P = int(input())
if P % N == 0:
    print("True Total Pack Total")
else:
    print("False Total Pack Total")
```

Input	Expected	Got
5 25	True Total Pack Total	True Total Pack Total
5 26	False Total Pack Total	False Total Pack Total
5 30	True Total Pack Total	True Total Pack Total

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **5**
Correct
Mark 1.00 out of 1.00
P. Yes question

Vill Bank has been given a problem kindly help him to solve it. The input of the program is either 1 or 2. If it is the input for the program is 1 then the output should be "Deposit" and if the input is 2 then the output should be "Withdrawal" and if the input is anything apart from 1 and 2 then the output should be "Invalid".

Input Format

Input contains values of 1 and 2.

Input Format:

An integer x. 0<=x<=4

Output Format:

Output a single character "I" or "D" depending on the value of x.

Input: 1
Output: D

Input: 2
Output: W

Input: 3
Output: I

For example:

Input	Result
1	D
2	W

Answer: (penalty regime: 0 %)

```
x = int(input())
print(x+x+x+x+x)
```

Input	Expected	Got
1	D	D
2	W	W
3	I	I

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **6**
Correct
Mark 1.00 out of 1.00
P. Yes question

Pramod that you have opened a new savings account that earns 4 percent interest per year. The interest that you earn is paid at the end of the year, and is added to the balance of the savings account. Write a program that begins by reading the amount of money that is deposited in the savings account, from the user. Then your program should calculate and display the amount in the savings account after 1, 2 and 3 years. Display each amount so that it is expressed in dollars and cents. Sample Input: 10000 Sample Output: Balance as of end of Year 1: $10400.00 Balance as of end of Year 2: $10816.00 Balance as of end of Year 3: $11248.64

For example:

Input	Result
10000	Balance as of end of Year 1: $10400.00 Balance as of end of Year 2: $10816.00 Balance as of end of Year 3: $11248.64

Answer: (penalty regime: 0 %)

```
principal_amount = float(input())
balance_year_1 = principal_amount * 1.04
balance_year_2 = balance_year_1 * 1.04
balance_year_3 = balance_year_2 * 1.04
print("Balance as of end of Year 1: $%0.2f" %(balance_year_1))
print("Balance as of end of Year 2: $%0.2f" %(balance_year_2))
print("Balance as of end of Year 3: $%0.2f" %(balance_year_3))
```

Input	Expected	Got
10000	Balance as of end of Year 1: $10400.00 Balance as of end of Year 2: $10816.00 Balance as of end of Year 3: $11248.64	Balance as of end of Year 1: $10400.00 Balance as of end of Year 2: $10816.00 Balance as of end of Year 3: $11248.64
20000	Balance as of end of Year 1: $20800.00 Balance as of end of Year 2: $21632.00 Balance as of end of Year 3: $22497.28	Balance as of end of Year 1: $20800.00 Balance as of end of Year 2: $21632.00 Balance as of end of Year 3: $22497.28

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **7**
Correct
Mark 1.00 out of 1.00
P. Yes question

Write a program that returns the last digit of the given number. Last digit is being referred to the least significant digit i.e. the digit at the unit place in the given number.

The last digit should be returned as a positive number.

For example,

If the given number is 107, the last digit is 7

If the given number is -107, the last digit is 7

For example:

Input	Result
107	7
-107	7

Answer: (penalty regime: 0 %)

```
num = int(input())
print(abs(num)%10)
```

Input	Expected	Got
107	7	7
-107	7	7

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **8**
Correct
Mark 1.00 out of 1.00
P. Yes question

Enter and if else, Operator above must be used.

A team from the Portal club planned to conduct a rally to create awareness among the Coimbatore people to access the Portal. Participants are allowed to register themselves through the Portal website. Participants are allowed to register if they should be having Driving Licence. The eligibility criteria for attending drive are people should be above or equal to 18 and their two weight should be above 40. There are a huge crowd and half is the Bricet bank found it difficult to manage the crowd. Help Mr.Kumaran Portal club to find out who are the people to enter their sign and weight in the system. If a person is eligible he/she will be allowed inside.

Write a program and feed it to the system to find whether a person is eligible or not.

Input Format:

Input contains of two integers the correspond to the age and weight of a person respectively.

Output Format:

Display "Yes#Y EXAMLE

Display "Nos of min eligible#

Sample Input:

18
40

Sample Output:

Yes

For example:

Input	Result
18 40	Yes#Y

Answer: (penalty regime: 0 %)

```
age = int(input())
weight = int(input())
if(age >= 18 and weight > 40):
    print("Yes#Y")
else:
    print("No")
```

Input	Expected	Got
18 40	Yes#Y	Yes#Y
18 39	No	No
17 40	No	No
17 39	No	No

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **9**
Correct
Mark 1.00 out of 1.00
P. Yes question

In the 1970s, the Battle of Troy was led by Herculus. He was a superstitious person. He believed that his crew can win the battle if he can find the number of soldiers in his crew. Herculus knew that if he divides the number of soldiers by 3 and 5 he can know the total number of weapons and the soldier's count. Find whether the battle can be won or not according to Herculus's belief. Write a program to help Herculus to find out whether he can win or not.

Input format:

Line 1 has the total number of weapons.
Line 2 has the total number of Soldiers.

Output format:

Print yes/no (no in capital letters) if the condition is satisfied.

Sample Input:

15
10

Sample Output:

Yes

For example:

Input	Result
15 10	Yes

Answer: (penalty regime: 0 %)

```
weapons = int(input())
soldiers = int(input())
if weapons % 3 == 0 and soldiers % 5 == 0:
    print("Yes")
else:
    print("No")
```

Input	Expected	Got
15 10	Yes	Yes
15 11	No	No
16 10	No	No
16 11	No	No

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **10**
Correct
Mark 1.00 out of 1.00
P. Yes question

The program that you create for this exercise will begin by reading the cost of a meal ordered at a restaurant from the user. Then your program will compute the tax and tip for the meal. Use your local tax rate (5 percent) when computing the amount of tax that is added to the meal. Also, compute a 15 percent tip based on the cost of the meal. Your program should display the amount each person should contribute toward the tax amount, and the grand total for the meal including both the tax and the tip. Format the output so that all of the values are displayed using two decimal places.

Input:

100

Sample Output:

The tax is 5.00 and the tip is 15.00, making the total 120.00

For example:

Input	Result
100	The tax is 5.00 and the tip is 15.00, making the total 120.00

Answer: (penalty regime: 0 %)

```
Meal_cost = float(input())
Tax_rate = 0.05
Tip = 0.15
Tax_amount = meal_cost * Tax_rate
Tip_amount = meal_cost * Tip_rate # Tip should be calculated on meal cost without tax
Total = meal_cost + Tax_amount + Tip_amount
print("The tax is %0.2f and the tip is %0.2f, making the total %0.2f" %(round(Tax_amount, 2), round(Tip_amount, 2), round(Total, 2)))
```

Input	Expected	Got
100	The tax is 5.00 and the tip is 15.00, making the total 120.00	The tax is 5.00 and the tip is 15.00, making the total 120.00
200	The tax is 10.00 and the tip is 30.00, making the total 240.00	The tax is 10.00 and the tip is 30.00, making the total 240.00

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Stop review

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Completed on	Friday, 29 March 2024, 9:21 PM
Time taken	2 mins 3 secs
Marks	3.00/3.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

Given an integer `n`, print `true` *if it is a power of three. Otherwise, print* `false`.

An integer `n` is a power of three, if there exists an integer `x` such that `n == 3^x`.

For example:

Input	Result
27	True
0	False

Answer: (penalty regime: 0 %)

```
n = int(input())
print(n > 0 and 3 ** 19 % n == 0)
```

	Input	Expected	Got	
	27	True	True	
	0	False	False	
	-1	False	False	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

Given an integer `n`, print `true` *if it is a power of two. Otherwise, print* `false`.

An integer `n` is a power of two, if there exists an integer `x` such that `n == 2^x`.

For example:

Input	Result
1	True
3	False

Answer: (penalty regime: 0 %)

```
n = int(input())
print(n > 0 and (n & (n - 1)) == 0)
```

	Input	Expected	Got	
	1	True	True	
	16	True	True	
	3	False	False	
	256	True	True	
	1000	False	False	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Given an integer `n`, print `true` *if it is a power of four. Otherwise, print* `false`.

An integer `n` is a power of four, if there exists an integer `x` such that `n == 4^x`.

For example:

Input	Result
16	True
5	False

Answer: (penalty regime: 0 %)

```
n = int(input())
print(n > 0 and n & (n - 1) == 0 and n & 0xAAAAAAAA == 0)
```

	Input	Expected	Got	
	16	True	True	
	5	False	False	
	1	True	True	
	-1	False	False	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

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Finish review

Started on	Monday, 25 March 2024, 11:42 AM
State	Finished
Completed on	Monday, 25 March 2024, 11:52 AM
Time taken	10 mins 35 secs
Grade	**14.00** out of 15.00 (**93.33**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of the following statement?
print(15 + 20 / 5 × 3 * 2 - 1)

a. 12
b. 19
c. 19.0
d. 24.0

Your answer is correct.
The correct answer is:
24.0

Question **2**
Incorrect
Mark 0.00 out of 1.00
Flag question

State the output of the following code.
num1 = '10'
num2 = '20'
sum = num1 + num2
print(sum)

a. 1020
b. Error
c. 30
d. 10

Your answer is incorrect.
The correct answer is:
Error

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following assignment operator?

```
y = 10
x = y += 2
print(x)
```

a. 10
b. 14
c. Syntax Error
d. 12

Your answer is correct.
The correct answer is:
Syntax Error

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of statement 22**2**2**2**

a. 256
b. 65536
c. 16
d. 32768

Your answer is correct.
The correct answer is:
65536

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code

```
x = 6
y = 2
print(x ** y)
print(x // y)
```

a. 64
8
4
b. 0
64
c. 64
0
d. 64
4

Your answer is correct.
The correct answer is:
64
4

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code

```
print(bool(0), bool(3.14159), bool(-5), bool(1.0+1j))
```

a.
- True True False True

b.
- True True False True

c.
- False True False True

d.
- False True True True

Your answer is correct.
The correct answer is:

- False True True True

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code: print 19//2?

a. 5
b. 5.5
c. Error
d. 5.0

Your answer is correct.
The correct answer is:
Error

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

An identifier can have a maximum length of --------- characters in Python.

a. 79
b. 7
c. 50
d. 31

Your answer is correct.
The correct answer is:
79

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following is not a valid variable name in Python?

a. **var11**
b. **_var_name**
c. **_var**
d. **5var**

Your answer is correct.
The correct answer is:

5var

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code
x = 5j
#display x:
print(x)
#display the data type of x:
print(type(x))

a. 5
<class 'int'>
b. 5.0
<class 'float'>
c. 5j
<class 'complex'>
d. 5j
<class 'object'>

Your answer is correct.
The correct answer is:
5j
<class 'complex'>

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code

x = 4
y = 10

print(x % y)

a. 6
b. 4
c. 1
d. 10

Your answer is correct.
The correct answer is:
4

Question **12**
Correct
Mark 1.00 out of 1.00
Flag question

What is the two's complement of -44?

a. 10110011
b. 11102101
c. 11010100
d. 1011011

Your answer is correct.
The correct answer is:
11010100

Question **13**
Correct
Mark 1.00 out of 1.00
Flag question

Which is the following is an Arithmetic operator in Python?
1. // (floor division) operator
2. & (bitwise and) operator
3. - (negative) operator
4. >> (right shift) operator

a. 4
b. 2
c. 3
d. 1

Your answer is correct.
The correct answer is:
1

Question **14**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following expression?
x=2
y-3**
print(z)

a. Error
b. 3
c. 8
d. 0

Your answer is correct.
The correct answer is:
8

Question **15**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code
x = 5
y = 3
print(x <= y)

a. False
b. 5<=3
c. True
d. Error

Your answer is correct.
The correct answer is:
False

Finish review

GE19211 / GE23233 / GE23231 - PSPP/PLP

Due: Monday, 17 March 2024, 5:00 PM

Started on	Wednesday, 27 March 2024, 5:05 PM
State	Finished
Completed on	Wednesday, 27 March 2024, 5:05 PM
Time taken	1 hour 3 mins
Marks	10.00/10.00
Grade	100.00 out of 100.00

Write a program that calculates and prints the electricity bill where the unit consumed by the user is given from user. It prints the total amount the customer has to pay. The charge are as follows:

First 100 units 2.25
101 to 200 units 4.50
201 and above but less than 400 6.00
401 and above but less than 600 8.00
600 and above 10.00

Minimum charge Rs.50 Rent a surcharge of 5% will be charged and the minimum bill should be rs75.100.

Sample Test Cases:

Test Case 1:

Input
1
Output
125.00

Test Case 2:

Input
2
Output
241.00

For example:

Input	Result
1 345.00 1000.00	125.00 1000.00

Answer: (penalty regime: 0 %)

```
if True:
    print("Enter a number:")
    n = int(input())
    if n <= 100:
        bill = n * 2.25
    elif 100 < n <= 200:
        bill = 100 * 2.25
        bill = bill + (n - 100) * 4.50
    elif 200 < n <= 400:
        bill = 100 * 2.25
        bill = bill + 100 * 4.50
        bill = bill + (n - 200) * 6.00
    elif 400 < n <= 600:
        bill = 100 * 2.25
        bill = bill + 100 * 4.50
        bill = bill + 200 * 6.00
        bill = bill + (n - 400) * 8.00
    elif n > 600:
        bill = 100 * 2.25
        bill = bill + 100 * 4.50
        bill = bill + 200 * 6.00
        bill = bill + 200 * 8.00
        bill = bill + (n - 600) * 10.00
    surcharge = 0.05 * bill
    if surcharge < 50:
        surcharge = 50
    bill = bill + surcharge
    print("%0.2f" % bill)
```

Input	Expected	Got
1 345.00 1000.00	125.00 1000.00	125.00 1000.00

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Write a program to print the length of a month name from 20 to 31 days. In this exercise you will create a program that reads the name of a month from the user and prints the length of that month. Use a program that displays the number of days in that month. Display "28 or 29 days" for February, so that keep your calculations simple.

Sample Input 1:

February

Sample Output 1:

February has 28 or 29 days in it.

Sample Input 2:

April

Sample Output 2:

Sorry, I don't know how many days in April.

Sample Input 3:

April

Sample Output 3:

April has 30 days in it.

For example:

Input	Result
February	February has 28 or 29 days in it.

Answer: (penalty regime: 0 %)

```
print("Enter a month name:")
m = input()
if m == "January" or m == "March" or m == "May" or m == "July" or m == "August" or m == "October" or m == "December":
    print(m, "has 31 days in it.")
elif m == "April" or m == "June" or m == "September" or m == "November":
    print(m, "has 30 days in it.")
elif m == "February":
    print(m, "has 28 or 29 days in it.")
else:
    print("Sorry, I don't know how many days in", m, ".")
```

Input	Expected	Got
February	February has 28 or 29 days in it.	February has 28 or 29 days in it.
March	March has 31 days in it.	March has 31 days in it.
April	April has 30 days in it.	April has 30 days in it.
Tea	Sorry, I don't know how many days in Tea .	Sorry, I don't know how many days in Tea .

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

A triangle can be classified based on the length of its sides as equilateral, isosceles or scalene. All three sides of an equilateral triangle have the same length. An isosceles triangle has two sides that are the same length, and a third side that is different from the other two lengths. A scalene triangle has all sides of different lengths.

Write a program that reads the lengths of the three sides of a triangle from the user. Then display a message that states the triangle's type.

Sample Input 1:

3
4
5

Sample Output 1:

That's a scalene triangle

Sample Input 2:

5
5
5

Sample Output 2:

That's an equilateral triangle

Sample Input 3:

5
5
8

Sample Output 3:

That's a isosceles triangle

For example:

Input	Result
3 4 5	That's a scalene triangle.
5 5 5	That's a equilateral triangle.
5 5 8	That's a isosceles triangle.

Answer: (penalty regime: 0 %)

```
print("Enter a number:")
side1 = int(input())
side2 = int(input())
side3 = int(input())
if side1 == side2 and side2 == side3:
    print("That's a equilateral triangle.")
elif side1 == side2 or side2 == side3 or side1 == side3:
    print("That's a isosceles triangle.")
else:
    print("That's a scalene triangle.")
```

Input	Expected	Got
3 4 5	That's a scalene triangle.	That's a scalene triangle.
5 5 5	That's a equilateral triangle.	That's a equilateral triangle.
5 5 8	That's a isosceles triangle.	That's a isosceles triangle.
8 5 5	That's a isosceles triangle.	That's a isosceles triangle.
5 8 5	That's a isosceles triangle.	That's a isosceles triangle.
7 8 9	That's a scalene triangle.	That's a scalene triangle.
7 7 7	That's a equilateral triangle.	That's a equilateral triangle.

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Write a program that returns the second last digit of the given number. Second last digit is being returned 10ths digit of the entry place in the given number.

In numbers of the given number is 10 the second last digit is 0.

Note1 : The second last digit should be returned as a positive number, so if the given number is -157, the second last digit is 5.

Note2 : If the given number is a single digit number, then the second last digit does not exist. In such cases the program should return -1 (i.e. if the given number is 5, the second last digit should be returned as -1)

For example:

Input	Result
157	5

Answer: (penalty regime: 0 %)

```
if True:
    n = int(input())
    if n < 10:
        print(-1)
    else:
        second_last_digit = 0
        while n > 10:
            second_last_digit = n % 10
            n = n // 10
        print(second_last_digit)
```

Input	Expected	Got
157	5	5
10	0	0
5	-1	-1
1000	0	0
78	7	7

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

In this exercise you will create a program that reads a letter of the alphabet from the user. If the user enters a a, then you should display the following message indicating that the entered letter is a vowel. If the user enters a four-year-old child, then it also displays the message indicating that the entered letter is a vowel. Otherwise your program should display a message indicating that the letter is a consonant.

Sample Input 1:

a

Sample Output 1:

It's a vowel.

Sample Input 2:

four

Sample Output 2:

Sometimes it's a vowel. Sometimes it's a consonant.

Sample Input 3:

x

Sample Output 3:

It's a consonant.

For example:

Input	Result
four	Sometimes it's a vowel. Sometimes it's a consonant.

Answer: (penalty regime: 0 %)

```
if True:
    letter = input("Enter a letter:")
    if letter == "a" or letter == "e" or letter == "i" or letter == "o" or letter == "u":
        print("It's a vowel.")
    elif letter == "four":
        print("Sometimes it's a vowel. Sometimes it's a consonant.")
    else:
        print("It's a consonant.")
```

Input	Expected	Got
four	It's a vowel.	It's a vowel.
four	Sometimes it's a vowel. Sometimes it's a consonant.	Sometimes it's a vowel. Sometimes it's a consonant.
x	It's a consonant.	It's a consonant.
e	It's a vowel.	It's a vowel.
y	It's a consonant.	It's a consonant.

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Hi, This the faculty handling programming lab for you in any which. Soon someone have told you that she will not allow you to enter the week's lab if you have not completed atleast half the number of problems given last week. Okay, if you didn't understand what I mean, I'm asking you to write a program that takes the number of problems given last week and the number of problems completed by the student in that week.

Input Format

Input consists of 2 integers.

The first integer corresponds to the number of problems given and the second integer corresponds to the number of problems solved.

Output Format

Output consists of the string "YES" or "NO".

Sample Input and Output

Input

5
3

Output

YES

For example:

Input	Result
5 3	YES

Answer: (penalty regime: 0 %)

```
if True:
    problems_given = int(input())
    problems_solved = int(input())
    if problems_solved >= problems_given / 2:
        print("YES")
    else:
        print("NO")
```

Input	Expected	Got
5 3	YES	YES
5 2	NO	NO
10 5	YES	YES
10 4	NO	NO
1 1	YES	YES

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Write a program to find the eligibility of admission for a professional course based on the following criteria:

Marks in Maths >= 65
Marks in Physics >= 55
Marks in Chemistry >= 50

Or

Total of all three subjects >= 165

Sample Test Cases

Test Case 1

Input
70
55
165

Output
The candidate is eligible

Test Case 2

Input
60
55
165

Output
The candidate is not eligible

For example:

Input	Result
70 55 165	The candidate is eligible
60 55 165	The candidate is not eligible

Answer: (penalty regime: 0 %)

```
if True:
    marks_maths = int(input())
    marks_physics = int(input())
    marks_chemistry = int(input())
    total_marks = marks_maths + marks_physics + marks_chemistry
    if marks_maths >= 65 and marks_physics >= 55 and marks_chemistry >= 50 or total_marks >= 165:
        print("The candidate is eligible")
    else:
        print("The candidate is not eligible")
```

Input	Expected	Got
70 55 165	The candidate is eligible	The candidate is eligible
60 55 165	The candidate is eligible	The candidate is eligible
70 55 165	The candidate is not eligible	The candidate is not eligible
60 55 165	The candidate is not eligible	The candidate is not eligible

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

The Chinese zodiac assigns animals for years in 12 year cycle. Cow 12 year cycle is shown in the table below. The pattern repeats from Years, with 2012 being another year of the dragon, and 1999 being another year of the hare.

Year Animal
2000 Dragon
2001 Snake
2002 Horse
2003 Sheep
2004 Monkey
2005 Rooster
2006 Dog
2007 Pig
2008 Rat
2009 Ox
2010 Tiger
2011 Rabbit

Write a program that reads a year from the user and displays the animal associated with that year. Your program should continue running until the user asks it to quit. Your program should be able to work with any year in the table.

Sample Input 1:

2000

Sample Output 1:

2010 is the year of the Tiger.

Sample Input 2:

2001

Sample Output 2:

2012 is the year of the Dragon.

Answer: (penalty regime: 0 %)

```
if True:
    year = int(input())
    if year == 2000 or year == 2012:
        animal = "Dragon"
    elif year == 2001 or year == 2013:
        animal = "Snake"
    elif year == 2002 or year == 2014:
        animal = "Horse"
    elif year == 2003 or year == 2015:
        animal = "Sheep"
    elif year == 2004 or year == 2016:
        animal = "Monkey"
    elif year == 2005 or year == 2017:
        animal = "Rooster"
    elif year == 2006 or year == 2018:
        animal = "Dog"
    elif year == 2007 or year == 2019:
        animal = "Pig"
    elif year == 2008 or year == 2020:
        animal = "Rat"
    elif year == 2009 or year == 2021:
        animal = "Ox"
    elif year == 2010 or year == 2022:
        animal = "Tiger"
    elif year == 2011 or year == 2023:
        animal = "Rabbit"
    print("%d" % year, "is the year of the", animal, ".")
```

Input	Expected	Got
2000	2000 is the year of the Dragon .	2000 is the year of the Dragon .
2001	2001 is the year of the Snake .	2001 is the year of the Snake .

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Three numbers form a Pythagorean triple if the sum of squares of two numbers is equal to the square of the third.

For example, 3, 4 and 5 form a Pythagorean triple, since $3^2 + 4^2 = 5^2$.

You are given three integers a, b, and c. They need not be given in increasing order. If they form a Pythagorean triple, then print "Yes", otherwise, print "No". Please write the exact message as in each sample.

Sample Input

3
4
5

Sample Output

Yes

Sample Test Cases

Test Case 1

Input

Input

2

4

Output

Yes

Input Case 2

Input

2

3

Output

No

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main()
{
int a,b;
scanf("%d %d",&a,&b);
if(a%2==0 && b%2==0||a%2==1&&b%2==1&&a!=b||a%2==1&&b%2==0&&a!=b||a%2==0&&b%2==1&&a!=b)
printf("Yes");
else
printf("No");
}
```

Input	Expected	Got
2 4	yes	yes
2 3	no	no
4 4	no	no

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **14**
Correct
Marks for this submission: 1.00/1.00.
Flag question

Write a program that reads a year from the user and displays a message indicating whether or not it is a leap year.

Sample Input 1

1900

Sample Output 1

1900 is not a leap year.

Sample Input 2

2000

Sample Output 2

2000 is a leap year.

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
int main() {
int year = 0;
int leap1 = 0, leap2 = 0, leap;
int quot1 = 0, quot2 = 0;
int rem1 = 0, rem2 = 0;
int cent1 = 0, cent2 = 0;
int rem3 = 0, rem4 = 0, leap3 = 0;
int cent3 = 0;
printf("Input is: ");
```

Input	Expected	Got
1900	1900 is not a leap year.	1900 is not a leap year.
2000	2000 is a leap year.	2000 is a leap year.
1996	1996 is not a leap year.	1996 is not a leap year.
2004	2004 is a leap year.	2004 is a leap year.

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

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Started on	Thursday, 25 April 2024, 12:23 PM
State	Finished
Completed on	Thursday, 25 April 2024, 12:31 PM
Time taken	7 mins 18 secs
Marks	3.00/3.00
Grade	**10.00** out of 10.00 (**100**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

Write a program that reads an integer from the user. Then your program should display a message indicating whether the integer is even or odd.

Sample Input1:

5

Sample Output1:

5 is odd.

Sample Input2:

10

Sample Output2:

10 is even.

For example:

Input	Result
5	5 is odd.

Answer: (penalty regime: 0 %)

```
num = int(input())
if num % 2 == 0:
    print(f"{num} is even.")
else:
    print(f"{num} is odd.")
```

	Input	Expected	Got	
	5	5 is odd.	5 is odd.	
	10	10 is even.	10 is even.	
	20	20 is even.	20 is even.	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

Write a Python program to calculate profit and loss (Cost Price and Selling Price is given as inputs).

Sample Test Cases

Test Case 1

Input

6000.00
6700.50

Output

Profit amount : Rs. 700.50

Test Case 2

Input

600.50
520.00

Output

Loss amount : Rs. 80.50

Answer: (penalty regime: 0 %)

```
cost_price = float(input())
selling_price = float(input())
profit_loss = selling_price - cost_price

if profit_loss > 0:
    print(f"Profit amount : Rs. {profit_loss:.2f}")
elif profit_loss < 0:
    print(f"Loss amount : Rs. {abs(profit_loss):.2f}")
else:
    print("No profit No loss")
```

	Input	Expected	Got	
	6000.00 6700.50	Profit amount : Rs. 700.50	Profit amount : Rs. 700.50	
	600.50 520.00	Loss amount : Rs. 80.50	Loss amount : Rs. 80.50	
	970 970	No profit No loss	No profit No loss	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Write a program that accepts 5 inputs and returns the count of how many of those 5 are even.

For example,

If the five inputs are 12, 17, 19, 14, and 115, there are two even numbers 12 and 14. So, the program must return 2.

Similarly,

If the five inputs are 15, 0, -12, 19, and 28, there are three even numbers 0, -12 and 28. So, the program must return 3.

Observe that zero is also considered an even number.

For example:

Input	Result
12 17 19 14 115	2
15 0 -12 19 28	3

Answer: (penalty regime: 0 %)

```
inputs = []
for i in range(5):
    num = int(input())
    inputs.append(num)

even_count = sum(1 for num in inputs if num % 2 == 0)

print(even_count)
```

	Input	Expected	Got	
	12 17 19 14 115	2	2	
	15 0 -12 19 28	3	3	

Passed all tests!

Correct

Marks for this submission: 1.00/1.00.

Finish review

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Question **1**
Correct
Mark 100 out of 100
Flag question

Started on: Wednesday, 1 April 2020, 5:45 PM
State: Finished
Completed on: Friday, 3 April 2020, 4:06 PM
Time taken: 2 days 22 hours
Grade: 5 out of 5 (100%)
Feedback: Well done!
Total time spent on all tasks: 2 days 22 hours

Write a program to find the sum of the series 1 + 11 + 111 + 1111 + ... + n terms (n will be given as input from the user and sum will be the output).

Sample Test Cases

Test Case 1

Input

4

Output

1234

Test Case 2

Input

5

Output

12345

Answer: (penalty regime: 0 %)

```
n = int(input())
sum = 0
term = 0
i = 1
while i <= n:
    term = term * 10 + 1
    sum = sum + term
    i = i + 1
print(sum, end=" ")
```

Input	Expected	Get
4	1234	1234
5	12345	12345

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **2**
Correct
Mark 100 out of 100
Flag question

Given a positive integer N, check whether it can be represented as a product of single-digit numbers.

Input Format

Single integer input.

Output Format

Output displays Yes if condition satisfies else prints No.

Example Input

14

Output

No

Example Input

12

Output

Yes

Answer: (penalty regime: 0 %)

```
n = int(input())
flag = 0
if n == 1:
    print("Yes")
else:
    for i in range(1, int(n**0.5) + 1):
        number = i
        while number % 2 == 0:
            number = number / 2
        while number % 3 == 0:
            number = number / 3
        while number % 5 == 0:
            number = number / 5
        if number == 1:
            flag = 1
            break
    if flag == 1:
        print("Yes")
    else:
        print("No")
```

Input	Expected	Get
14	No	No
12	Yes	Yes

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **3**
Correct
Mark 100 out of 100
Flag question

Write a program that finds whether the given number N is Prime or not.

If the number is prime, the program should return 1 else 0 must return 1

Input Format: Single integer input from stdin.

Example1: If the given number N is 7, the method must return 1

Example2: If the given number N is 10, the method must return 1

For example:

Input	Result
7	1
10	0

Answer: (penalty regime: 0 %)

```
n = int(input())
flag = 0
if n == 1:
    print("0")
else:
    for i in range(1, int(n**0.5) + 1):
        if n % i == 0:
            flag = 1
            break
    if flag == 0:
        print("1")
    else:
        print("0")
```

Input	Expected	Get
7	1	1
10	0	0

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **4**
Correct
Mark 100 out of 100
Flag question

Write a program to return the nth number in the fibonacci series.

The value of n will be passed to the program as input.

NOTE: Fibonacci series looks like :

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55 . . . and so on.

i.e. fibonacci series starts with 0 and 1 and continues generating the next number as the sum of the previous two numbers.

For example, the output should be

- second fibonacci number is 1,
- third fibonacci number is 1,
- fourth fibonacci number is 2,
- fifth fibonacci number is 3,
- sixth fibonacci number is 5,
- seventh fibonacci number is 8, and so on.

For example:

Input	Result
3	1
4	2
7	8

Answer: (penalty regime: 0 %)

```
n = int(input())
a = 0
b = 1
if n == 1:
    print(a, end=" ")
elif n == 2:
    print(a, b, end=" ")
else:
    print(a, b, end=" ")
    for i in range(3, n+1):
        c = a + b
        print(c, end=" ")
        a = b
        b = c
```

Input	Expected	Get
3	1	1
4	2	2
7	8	8

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **5**
Correct
Mark 100 out of 100
Flag question

A Number is said to be Deficient number when the sum of its digit raised to the power of their respective positions becomes less than the number itself. Write a program to print number is Deficient or not.

Input Format

Single integer input from stdin.

Output Format

Yes or No.

Example Input

135

Output

No

Explanation

1^1 + 3^2 +5^3 = 175

Example Input

12

Output

Yes

For example:

Input	Result
135	No
12	Yes

Answer: (penalty regime: 0 %)

```
n = int(input())
temp = n
sum = 0
while n > 0:
    digit = n % 10
    sum_digits = digit ** temp
    n = n // 10
    temp = temp - 1
if sum_digits > temp:
    print("No")
else:
    print("Yes")
```

Input	Expected	Get
135	No	No
12	Yes	Yes

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **6**
Correct
Mark 100 out of 100
Flag question

Write a program to find the count of unique digits in a given number N. The number will be passed to the program as an input of type int.

Assumption: The input number will be a positive integer number >= 1 and <= 2000.

Hint:

If the given number is 200, the program should return 2 because there are only 2 unique digits '2' and '0' in this number

If the given number is 555, the program should return 1 because there are 3 unique digits in this number, '5', '5' and '5'.

For example:

Input	Result
200	2
5555	1

Answer: (penalty regime: 0 %)

```
n = int(input())
temp = n
count_digits = 0
while temp > 0:
    digit = temp % 10
    if digit not in count_digits:
        count_digits = count_digits + 1
    temp = temp // 10
print(count_digits, end=" ")
```

Input	Expected	Get
200	2	2
5555	1	1
123	3	3

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **7**
Correct
Mark 100 out of 100
Flag question

Given an integer N, check whether N the given number can be made a perfect square after adding 1 to it.

Input Format

Single integer input.

Output Format

Yes or No.

Example Input

35

Output

No

Example Input

24

Output

Yes

For example:

Input	Result
24	Yes

Answer: (penalty regime: 0 %)

```
n = int(input())
temp = n
count_num = 0
while count_num * count_num <= n:
    count_num = count_num + 1
if count_num * count_num == n:
    print("No")
else:
    print("Yes")
```

Input	Expected	Get
24	Yes	Yes

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **8**
Correct
Mark 100 out of 100
Flag question

Given a number N, find the next perfect square greater than N.

Input Format

Single integer input stdin.

Output Format

Perfect square greater than N.

Example Input

10

Output

16

Answer: (penalty regime: 0 %)

```
n = int(input())
count_perfect_squares = 0
temp = n + 1
while count_perfect_squares == 0:
    temp = temp + 1
    count_perfect_squares = int(temp**0.5) * int(temp**0.5)
print(count_perfect_squares)
```

Input	Expected	Get
10	16	16

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **9**
Correct
Mark 100 out of 100
Flag question

Write a program to find the count of non-repeated digits in a given number N. The number will be passed to the program as an input of type int.

Assumption: The input number will be a positive integer number >= 1 and <= 2000.

Example explanation as below:

If the given number is 200, the program should return 1 because there is only 1 non-repeated digit '0' in this number

If the given number is 555, the program should return 0 because there are no non-repeated digits in this number, '5' and '5'

If the given number is 123, the program should return 3 because there are 3 non-repeated digits in this number, '1', '2', and '3'.

If the given number is 22, the function should return 0 because there are NO non-repeated digits in this number.

For example:

Input	Result
200	1
555	0
123	3
22	0

Answer: (penalty regime: 0 %)

```
n = int(input())
temp = n
count_digits = 0
while temp > 0:
    digit = temp % 10
    if digit not in count_digits:
        count_digits = count_digits + 1
    temp = temp // 10
temp = n
count_repeated_digits = 0
while temp > 0:
    digit = temp % 10
    if digit in count_digits:
        count_digits = count_digits - 1
    temp = temp // 10
print(count_digits, end=" ")
```

Input	Expected	Get
200	1	1
555	0	0
123	3	3
22	0	0

Passed all tests! ✓

Marks for this submission: 100.00/.

Question **10**
Correct
Mark 100 out of 100
Flag question

In mathematics, the factorial of a non-negative integer n, denoted by n!, is the product of all positive integers less than or equal to n. For example:

4! = 4 x 3 x 2 x 1 = 24

5! = 5 x 4 x 3 x 2 x 1 = 120

6! = 6 x 5 x 4 x 3 x 2 x 1 = 720

Write a program to find the factorial of a given number.

The given number will be passed to the program as an input of type int.

Assumption: The input number will be a positive integer number in the range of the given number and return it as an int type.

The program is the program.

The given input number will always be greater than or equal to 1.

Due to the range supported by int, the input numbers will range from 1 to 12.

For example:

Input	Result
4	24
5	120
6	720

Answer: (penalty regime: 0 %)

```
n = int(input())
factorial = 1
while n > 0:
    factorial = factorial * n
    n = n - 1
print(factorial)
```

Input	Expected	Get
4	24	24
5	120	120
6	720	720

Passed all tests! ✓

Marks for this submission: 100.00/.

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Quiz navigation

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Finish review

Started on	Thursday, 25 April 2024, 12:32 PM
State	Finished
Completed on	Thursday, 25 April 2024, 12:38 PM
Time taken	6 mins 43 secs
Marks	3.00/3.00
Grade	**30.00** out of 30.00 (**100**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

You are choreographing a circus show with various animals. For one act, you are given two kangaroos on a number line ready to jump in the positive direction.
•The first kangaroo starts at position x1 and moves at a speed v1 meters per jump.
•The second kangaroo starts at position x2 and moves at a speed of v2 meters per jump and x2 > x1
•You have to figure out to get both kangaroos at the same position at the same time as part of the show before k jumps. If it is possible, return YES, otherwise return NO.

Input Format:
x1-position of kangaroo1
v1-Speed of kangaroo1
x2-position of kangaroo2
v2-Speed of kangaroo2
k-jumps

Output Format:
Both kangaroos are at the same position within k jumps, YES, otherwise NO.

For example:

Input	Result
0 3 4 2 6	YES

Answer: (penalty regime: 0 %)

```
x1 = int(input())
v1 = int(input())
x2 = int(input())
v2 = int(input())
k = int(input())
if (x2 - x1) % (v1 - v2) == 0 and (x2 - x1) / (v1 - v2) >= 0 and (x2 - x1) / (v1 - v2) <= k:
    print("YES")
else:
    print("NO")
```

	Input	Expected	Got	
	0 3 4 2 6	YES	YES	
	0 3 2 4 8	NO	NO	

Passed all tests!

Correct
Marks for this submission: 1.00/1.00.

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

An abundant number is a number for which the sum of its proper divisors is greater than the number itself.

Proper divisors of the number are those that are strictly lesser than the number.

Input Format:

Take input an integer from stdin

Output Format:

Print Yes if given number is Abundant. Otherwise, print No

Example input:

12

Output:

Yes

Explanation

The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2 + 3 + 4 + 6 = 16. Since sum of proper divisors is greater than the given number, 12 is an abundant number.

Example input:

13

Output:

No

Explanation

The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater than the given number, 13 is not an abundant number.

Answer: (penalty regime: 0 %)

```
num = int(input())

divisor_sum = sum([i for i in range(1, num) if num % i == 0])

if divisor_sum > num:
    print("Yes")
else:
    print("No")
```

	Input	Expected	Got	
	12	Yes	Yes	
	13	No	No	

Passed all tests!

Correct
Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Rakesh loves playing with numbers. He took the Fibonacci series and wants to find the sum of squares of the series until a given value. Write a code that implements his task.

Input Format:

Single Integer N

Output Format:

Display the sum of squares of the Fibonacci series until the Nth term.

Example Input:

9

Output:

1870

Explanation:

The numbers are: 1 1 2 3 5 8 13 21 34

Sum of their squares is: 1 + 1 + 4 + 9 + 25 + 64 + 169 + 441 + 1156 = 1870

For example:

Input	Result
9	1870

Answer: (penalty regime: 0 %)

```
N = int(input())
fibonacci_series = [1, 1]

while len(fibonacci_series) < N:
    next_term = fibonacci_series[-1] + fibonacci_series[-2]
    fibonacci_series.append(next_term)

sum_of_squares = sum(x**2 for x in fibonacci_series)

print(sum_of_squares)
```

	Input	Expected	Got	
	9	1870	1870	

Passed all tests!

Correct
Marks for this submission: 1.00/1.00.

Finish review

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Quiz navigation

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Finish review

Started on	Sunday, 14 April 2024, 2:23 PM
State	Finished
Completed on	Sunday, 14 April 2024, 2:38 PM
Time taken	14 mins 33 secs
Grade	**15.00** out of 15.00 (**100**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

Syntax of range()

a. (stop, step, start)
b. (start, stop, step)
c. (step, stop, start)
d. (start, step, stop)

Your answer is correct.
The correct answer is:
(start, stop, step)

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

```
Predict the output of the program?
for x in range(4):
  if x == 3: break
    print(x)
  else:
    print("Finally finished!")
```

a. 0
1
2
3
b. Finally Finished!
c. 0
1
2
d. 0
1
2
3
Finally Finished!

Your answer is correct.
The correct answer is:
0
1
2

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

```
num =0
while num < 5:
   num = num + 1
      print('num = ', num)
Predict the output of the following?
```

a. Runs correctly
b. Indentation Error
c. Prints no output
d. Runtime error

Your answer is correct.
The correct answer is:
Indentation Error

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

A while loop in python is used for what type of iteration?

a. **definite**
b. **indiscriminant**
c. **discriminant**
d. **indefinite**

Your answer is correct.
The correct answer is:
indefinite

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

Syntax of range()

a. (start, stop, step)
b. (start, step, stop)
c. (stop, step, start)
d. (step, stop, start)

Your answer is correct.
The correct answer is:
(start, stop, step)

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

```
i = 1
while i < 4:
    print(i)
    if (i == 2):
        break

i += 1
Predict the output of the following?
```

a. 2 3 4
b. 1 2 3 4
c. Compiler Error
d. 1 2

Your answer is correct.
The correct answer is:
1 2

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

Which is a counter-controlled in python?

a. do-while
b. for
c. switch
d. while

Your answer is correct.
The correct answer is:
for

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

Which one of them is the correct syntax of for loop in python ?

a.
```
for[sequence] in [item]:
        loop body
```
b.
```
for [item] in [sequence]:
        loop body
```
c.
```
for [item] in [item]:
        loop body
```
d.
```
for[sequence] in [sequence]:
        loop body
```

Your answer is correct.
The correct answer is:
```
for [item] in [sequence]:
    loop body
```

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

While loop can execute a set of statements till

a. The condition stops executing
b. The condition starts executing
c. The condition is True
d. The condition is False

Your answer is correct.
The correct answer is:
The condition is True

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

```
How many times it will print the statement?
for i in range(102):
    print(i)
```

Answer: 102

The correct answer is: 102

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

```
for x in [0, 1, 2]:
    pass
```

Predict the output of the program?

a. Prints nothing
b. Prints 0,1,2
c. Compilation Error
d. Runtime Error

Your answer is correct.
The correct answer is:
Prints nothing.

Question **12**
Correct
Mark 1.00 out of 1.00
Flag question

```
i=1
while True:
        if (%%n%7==0):
                break
        print(i)
        i=i+1
Predict the output of the following?
```

a. 0 1 2 3 4 5 6 7
b. 7
c. 1 2 3 4 5 6 7
d. 1 2 3 4 5 6

Your answer is correct.
The correct answer is:
1 2 3 4 5 6

Question **13**
Correct
Mark 1.00 out of 1.00
Flag question

```
Predict the output of the following
i = 1
while i < 4:
    print(i)
    i += 1
```

a. 2 3
b. 3 4
c. 1 2 3 4
d. 2 3 4

Your answer is correct.
The correct answer is:
2 3

Question **14**
Correct
Mark 1.00 out of 1.00
Flag question

A for loop can iterate over a

a. list
b. float
c. integer
d. bool

Your answer is correct.
The correct answer is:
list

Question **15**
Correct
Mark 1.00 out of 1.00
Flag question

```
True= False
while(True):
        print(True)
        break

What is the output of the following?
```

a. **No output**
b. **True**
c. **False**
d. **Syntax Error**

Your answer is correct.
The correct answer is:
Syntax Error

Finish review

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Quick navigation

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Finish review

Started on:	Thursday, 2 May 2024, 10:06 AM
State:	Finished
Completed on:	Saturday, 4 May 2024, 5:04 AM
Time taken:	1 day 19 hours
Grade:	100 out of 100

Review attempt 2 of 2 Grade: 100

Finish review

Question **1**
Correct
Mark 100 out of 100
Flag question
Flag question

Create a string S which is of the format LEFTHAND@EXAMPLE.EXTENSION, the program must print the EXTENSION, EXAMPLE.EXTENSION in the reverse order.

Input Format:
The first line contains S

Output Format:
The first line contains EXTENSION,
The second line contains EXAMPLE.EXTENSION
The third line contains LEFTHAND,

Boundary Condition:
1 <= Length of S <= 100

Example Input/Output 1:
Input:
abc@gmail.com
Output:
com
gmail.com
abc
Answer (penalty regime: 0 %)

```
# get user input for the string
s = input()
# split the input string to extract EXTENSION, EXAMPLE, and EXTENSION
extension, example.extension = s.split('.')
left_hand, example = example.split('@')
# print EXTENSION, EXAMPLE, and EXTENSION in reverse order
print(extension)
print(example.extension)
print(left_hand)
```

For example:

Input	Result
a+2@yahoo@'@'&'&'&&&'&&&'&&

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Quiz navigation

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✗	✓	✓	✓	✓
6	7	8	9	10
✓	✓	✓	✓	✓
11	12	13	14	15
✓	✓	✓	✗	✓

Show one page at a time

Finish review

Started on	Thursday, 2 May 2024, 11:41 AM
State	Finished
Completed on	Thursday, 2 May 2024, 11:49 AM
Time taken	8 mins 20 secs
Grade	**13.00** out of 15.00 (**86.67**%)

Question **1**
Incorrect
Mark 0.00 out of 1.00
Flag question

```
which of the following will give "Vijay" as output?
str1='John,Vijay,Aryan'
```

a. print(str1[-7:-11])
b. print(str1[-7:-12])
c. print(str1[-11:-7])
d. print(str1[-11:-6])

Your answer is incorrect.
The correct answer is:
print(str1[-11:-6])

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following Code?
str1='anvijayakumar'
print(str1[1:-1])

Answer: ramukayajivra

The correct answer is: ramukayajivra

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code?

```
str1='vijayakumar'
str2='.'
str3='----'
print(str1[-1:1])
```

a. ramukayajiv
b. None of the above
c. 'Y'
d. vijayakuma

Your answer is correct.
The correct answer is:
'r'

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following?

```
my_string = 'arvijayakumar'
for i in range(len(my_string)):
        my_string[i].upper()
print (my_string)
```

a. Error
b. None
c. anvijayakumar
d. ARVIJAYAKUMAR

Your answer is correct.
The correct answer is:
anvijayakumar

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code?

```
print('Ab12'.swapcase())
```

a. aB12
b. aB1@
c. AB1@
d. ab12

Your answer is correct.
The correct answer is:
aB12

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of 'hello'+1+2+3 ?

a. hello6
b. Error Cannot concantenate str and int objects.
c. hello123
d. hello

Your answer is correct.
The correct answer is:
Error

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following Code?
str1='anvijayakumar'
print(str1[2:7])

Answer: vijay

The correct answer is: vijay

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of the following code?
a = '2'
b = 4
print(a*b)

Answer: 2222

The correct answer is: 2222

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following are valid string manipulation functions in Python?

a. strip()
b. upper()
c. All of the mentioned All of the above are valid string manipulation functions in Python.
d. count()

Your answer is correct.
The correct answer is:
All of the mentioned.

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code ?

```
example = 'anvijayakumar'
example[0] = 'A'
print example
```

a. A
b. anvijayakumar
c. Error Strings cannot be modified
d. Anvijayakumar

Your answer is correct.
The correct answer is:
Error

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

```
what is the output of the following code?

my_string = 'vijay'
for i in range(len(my_string)):
    print (my_string)
    my_string = 'a'
```

a. None
b. Error
c. vaaaaaaaaaaaa
d. vijay a a a a String is modified only after 'vijay' has been printed once.

Your answer is correct.
The correct answer is:
vijay a a a a

Question **12**
Correct
Mark 1.00 out of 1.00
Flag question

```
what is the output of the following code ?

str = "Welcome"
str[1] = 'a'
print(str)
```

a. aWelcome
b. Weacome
c. Welcomea
d. Error Strings cannot be modified

Your answer is correct.
The correct answer is:
Error

Question **13**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code?
str1='vijay'
for i in range(len(str1)):
    print(i, end="")

a. vijay
b. No output
c. None of the above
d. 01234

Your answer is correct.
The correct answer is:
01234

Question **14**
Incorrect
Mark 0.00 out of 1.00
Flag question

```
python considered the character enclosed in triple quotes as string.
```

Select one:
True
False

The correct answer is 'True'.

Question **15**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code?
str1='vijay'
for i in range(len(str1),6):
    print(i)

a. 5
b. vijay
c. None of the above
d. y

Your answer is correct.
The correct answer is:
5

Finish review

GE19211 / GE23233 / GE23231 - PSPP/PLP

Exit Assessment

Time Left 0:00:00

Started on : Thursday, 3 May 2024, 11:01 AM
State : Finished
Completed on : Sunday, 5 May 2024, 5:27 PM
Time taken : 2 days 6 hours
Grade : 0.00 out of 100.00

Question **1**
Correct
Mark 100.00 out of 100.00
Flag question

Consider a program to insert an element / item in the sorted array. Complete the logic by filling up required code in suitable sections. Consider an array of size 10. The element item is the data to be inserted.

Sample Test Cases

Test Case 1

Input

```
1
2
3
4
5
6
7
8
9
10
12
```

Output

```
After Insertion
1
2
3
4
5
6
7
8
9
10
12
```

Test Case 2

Input

```
1
2
3
4
5
6
7
8
9
10
11
```

Output

```
After Insertion
1
2
3
4
5
6
7
8
9
10
11
```

Answer: (penalty regime: 0 %)

```
int n=10;
int arr[n];
int item,temp1,temp2;
int i=0,j=0,k=0;
int flag=0;
int *p=arr;
int *q=arr+1;
int *r=arr+2;
int *s=arr+3;
int *t=arr+4;
int *u=arr+5;
int *v=arr+6;
int *w=arr+7;
int *x=arr+8;
int *y=arr+9;
int *z=arr+10;
int *temp=p,*temp1=q,*temp2=r,*temp3=s,*temp4=t,*temp5=u,*temp6=v,*temp7=w,*temp8=x,*temp9=y,*temp10=z;
int *pointer=p,*pointer1=q,*pointer2=r,*pointer3=s,*pointer4=t,*pointer5=u,*pointer6=v,*pointer7=w,*pointer8=x,*pointer9=y,*pointer10=z;
int *p1=p,*q1=q,*r1=r,*s1=s,*t1=t,*u1=u,*v1=v,*w1=w,*x1=x,*y1=y,*z1=z;
int *pointer11=pointer,*pointer12=pointer1,*pointer13=pointer2,*pointer14=pointer3,*pointer15=pointer4,*pointer16=pointer5,*pointer17=pointer6,*pointer18=pointer7,*pointer19=pointer8,*pointer20=pointer9,*pointer21=pointer10;
int *temp11=temp,*temp12=temp1,*temp13=temp2,*temp14=temp3,*temp15=temp4,*temp16=temp5,*temp17=temp6,*temp18=temp7,*temp19=temp8,*temp20=temp9,*temp21=temp10;
int *temp22=temp,*temp23=temp1,*temp24=temp2,*temp25=temp3,*temp26=temp4,*temp27=temp5,*temp28=temp6,*temp29=temp7,*temp30=temp8,*temp31=temp9,*temp32=temp10;
int *temp33=temp,*temp34=temp1,*temp35=temp2,*temp36=temp3,*temp37=temp4,*temp38=temp5,*temp39=temp6,*temp40=temp7,*temp41=temp8,*temp42=temp9,*temp43=temp10;
int *temp44=temp,*temp45=temp1,*temp46=temp2,*temp47=temp3,*temp48=temp4,*temp49=temp5,*temp50=temp6,*temp51=temp7,*temp52=temp8,*temp53=temp9,*temp54=temp10;
int *temp55=temp,*temp56=temp1,*temp57=temp2,*temp58=temp3,*temp59=temp4,*temp60=temp5,*temp61=temp6,*temp62=temp7,*temp63=temp8,*temp64=temp9,*temp65=temp10;
int *temp66=temp,*temp67=temp1,*temp68=temp2,*temp69=temp3,*temp70=temp4,*temp71=temp5,*temp72=temp6,*temp73=temp7,*temp74=temp8,*temp75=temp9,*temp76=temp10;
int *temp77=temp,*temp78=temp1,*temp79=temp2,*temp80=temp3,*temp81=temp4,*temp82=temp5,*temp83=temp6,*temp84=temp7,*temp85=temp8,*temp86=temp9,*temp87=temp10;
int *temp88=temp,*temp89=temp1,*temp90=temp2,*temp91=temp3,*temp92=temp4,*temp93=temp5,*temp94=temp6,*temp95=temp7,*temp96=temp8,*temp97=temp9,*temp98=temp10;
int *temp99=temp,*temp100=temp1,*temp101=temp2,*temp102=temp3,*temp103=temp4,*temp104=temp5,*temp105=temp6,*temp106=temp7,*temp107=temp8,*temp108=temp9,*temp109=temp10;
int *temp110=temp,*temp111=temp1,*temp112=temp2,*temp113=temp3,*temp114=temp4,*temp115=temp5,*temp116=temp6,*temp117=temp7,*temp118=temp8,*temp119=temp9,*temp120=temp10;
int *temp121=temp,*temp122=temp1,*temp123=temp2,*temp124=temp3,*temp125=temp4,*temp126=temp5,*temp127=temp6,*temp128=temp7,*temp129=temp8,*temp130=temp9,*temp131=temp10;
int *temp132=temp,*temp133=temp1,*temp134=temp2,*temp135=temp3,*temp136=temp4,*temp137=temp5,*temp138=temp6,*temp139=temp7,*temp140=temp8,*temp141=temp9,*temp142=temp10;
int *temp143=temp,*temp144=temp1,*temp145=temp2,*temp146=temp3,*temp147=temp4,*temp148=temp5,*temp149=temp6,*temp150=temp7,*temp151=temp8,*temp152=temp9,*temp153=temp10;
int *temp154=temp,*temp155=temp1,*temp156=temp2,*temp157=temp3,*temp158=temp4,*temp159=temp5,*temp160=temp6,*temp161=temp7,*temp162=temp8,*temp163=temp9,*temp164=temp10;
int *temp165=temp,*temp166=temp1,*temp167=temp2,*temp168=temp3,*temp169=temp4,*temp170=temp5,*temp171=temp6,*temp172=temp7,*temp173=temp8,*temp174=temp9,*temp175=temp10;
int *temp176=temp,*temp177=temp1,*temp178=temp2,*temp179=temp3,*temp180=temp4,*temp181=temp5,*temp182=temp6,*temp183=temp7,*temp184=temp8,*temp185=temp9,*temp186=temp10;
int *temp187=temp,*temp188=temp1,*temp189=temp2,*temp190=temp3,*temp191=temp4,*temp192=temp5,*temp193=temp6,*temp194=temp7,*temp195=temp8,*temp196=temp9,*temp197=temp10;
int *temp198=temp,*temp199=temp1,*temp200=temp2,*temp201=temp3,*temp202=temp4,*temp203=temp5,*temp204=temp6,*temp205=temp7,*temp206=temp8,*temp207=temp9,*temp208=temp10;
int *temp209=temp,*temp210=temp1,*temp211=temp2,*temp212=temp3,*temp213=temp4,*temp214=temp5,*temp215=temp6,*temp216=temp7,*temp217=temp8,*temp218=temp9,*temp219=temp10;
int *temp220=temp,*temp221=temp1,*temp222=temp2,*temp223=temp3,*temp224=temp4,*temp225=temp5,*temp226=temp6,*temp227=temp7,*temp228=temp8,*temp229=temp9,*temp230=temp10;
int *temp231=temp,*temp232=temp1,*temp233=temp2,*temp234=temp3,*temp235=temp4,*temp236=temp5,*temp237=temp6,*temp238=temp7,*temp239=temp8,*temp240=temp9,*temp241=temp10;
int *temp242=temp,*temp243=temp1,*temp244=temp2,*temp245=temp3,*temp246=temp4,*temp247=temp5,*temp248=temp6,*temp249=temp7,*temp250=temp8,*temp251=temp9,*temp252=temp10;
int *temp253=temp,*temp254=temp1,*temp255=temp2,*temp256=temp3,*temp257=temp4,*temp258=temp5,*temp259=temp6,*temp260=temp7,*temp261=temp8,*temp262=temp9,*temp263=temp10;
int *temp264=temp,*temp265=temp1,*temp266=temp2,*temp267=temp3,*temp268=temp4,*temp269=temp5,*temp270=temp6,*temp271=temp7,*temp272=temp8,*temp273=temp9,*temp274=temp10;
int *temp275=temp,*temp276=temp1,*temp277=temp2,*temp278=temp3,*temp279=temp4,*temp280=temp5,*temp281=temp6,*temp282=temp7,*temp283=temp8,*temp284=temp9,*temp285=temp10;
int *temp286=temp,*temp287=temp1,*temp288=temp2,*temp289=temp3,*temp290=temp4,*temp291=temp5,*temp292=temp6,*temp293=temp7,*temp294=temp8,*temp295=temp9,*temp296=temp10;
int *temp297=temp,*temp298=temp1,*temp299=temp2,*temp300=temp3,*temp301=temp4,*temp302=temp5,*temp303=temp6,*temp304=temp7,*temp305=temp8,*temp306=temp9,*temp307=temp10;
int *temp308=temp,*temp309=temp1,*temp310=temp2,*temp311=temp3,*temp312=temp4,*temp313=temp5,*temp314=temp6,*temp315=temp7,*temp316=temp8,*temp317=temp9,*temp318=temp10;
int *temp319=temp,*temp320=temp1,*temp321=temp2,*temp322=temp3,*temp323=temp4,*temp324=temp5,*temp325=temp6,*temp326=temp7,*temp327=temp8,*temp328=temp9,*temp329=temp10;
int *temp330=temp,*temp331=temp1,*temp332=temp2,*temp333=temp3,*temp334=temp4,*temp335=temp5,*temp336=temp6,*temp337=temp7,*temp338=temp8,*temp339=temp9,*temp340=temp10;
int *temp341=temp,*temp342=temp1,*temp343=temp2,*temp344=temp3,*temp345=temp4,*temp346=temp5,*temp347=temp6,*temp348=temp7,*temp349=temp8,*temp350=temp9,*temp351=temp10;
int *temp352=temp,*temp353=temp1,*temp354=temp2,*temp355=temp3,*temp356=temp4,*temp357=temp5,*temp358=temp6,*temp359=temp7,*temp360=temp8,*temp361=temp9,*temp362=temp10;
int *temp363=temp,*temp364=temp1,*temp365=temp2,*temp366=temp3,*temp367=temp4,*temp368=temp5,*temp369=temp6,*temp370=temp7,*temp371=temp8,*temp372=temp9,*temp373=temp10;
int *temp374=temp,*temp375=temp1,*temp376=temp2,*temp377=temp3,*temp378=temp4,*temp379=temp5,*temp380=temp6,*temp381=temp7,*temp382=temp8,*temp383=temp9,*temp384=temp10;
int *temp385=temp,*temp386=temp1,*temp387=temp2,*temp388=temp3,*temp389=temp4,*temp390=temp5,*temp391=temp6,*temp392=temp7,*temp393=temp8,*temp394=temp9,*temp395=temp10;
int *temp396=temp,*temp397=temp1,*temp398=temp2,*temp399=temp3,*temp400=temp4,*temp401=temp5,*temp402=temp6,*temp403=temp7,*temp404=temp8,*temp405=temp9,*temp406=temp10;
int *temp407=temp,*temp408=temp1,*temp409=temp2,*temp410=temp3,*temp411=temp4,*temp412=temp5,*temp413=temp6,*temp414=temp7,*temp415=temp8,*temp416=temp9,*temp417=temp10;
int *temp418=temp,*temp419=temp1,*temp420=temp2,*temp421=temp3,*temp422=temp4,*temp423=temp5,*temp424=temp6,*temp425=temp7,*temp426=temp8,*temp427=temp9,*temp428=temp10;
int *temp429=temp,*temp430=temp1,*temp431=temp2,*temp432=temp3,*temp433=temp4,*temp434=temp5,*temp435=temp6,*temp436=temp7,*temp437=temp8,*temp438=temp9,*temp439=temp10;
int *temp440=temp,*temp441=temp1,*temp442=temp2,*temp443=temp3,*temp444=temp4,*temp445=temp5,*temp446=temp6,*temp447=temp7,*temp448=temp8,*temp449=temp9,*temp450=temp10;
int *temp451=temp,*temp452=temp1,*temp453=temp2,*temp454=temp3,*temp455=temp4,*temp456=temp5,*temp457=temp6,*temp458=temp7,*temp459=temp8,*temp460=temp9,*temp461=temp10;
int *temp462=temp,*temp463=temp1,*temp464=temp2,*temp465=temp3,*temp466=temp4,*temp467=temp5,*temp468=temp6,*temp469=temp7,*temp470=temp8,*temp471=temp9,*temp472=temp10;
int *temp473=temp,*temp474=temp1,*temp475=temp2,*temp476=temp3,*temp477=temp4,*temp478=temp5,*temp479=temp6,*temp480=temp7,*temp481=temp8,*temp482=temp9,*temp483=temp10;
int *temp484=temp,*temp485=temp1,*temp486=temp2,*temp487=temp3,*temp488=temp4,*temp489=temp5,*temp490=temp6,*temp491=temp7,*temp492=temp8,*temp493=temp9,*temp494=temp10;
int *temp495=temp,*temp496=temp1,*temp497=temp2,*temp498=temp3,*temp499=temp4,*temp500=temp5,*temp501=temp6,*temp502=temp7,*temp503=temp8,*temp504=temp9,*temp505=temp10;
int *temp506=temp,*temp507=temp1,*temp508=temp2,*temp509=temp3,*temp510=temp4,*temp511=temp5,*temp512=temp6,*temp513=temp7,*temp514=temp8,*temp515=temp9,*temp516=temp10;
int *temp517=temp,*temp518=temp1,*temp519=temp2,*temp520=temp3,*temp521=temp4,*temp522=temp5,*temp523=temp6,*temp524=temp7,*temp525=temp8,*temp526=temp9,*temp527=temp10;
int *temp528=temp,*temp529=temp1,*temp530=temp2,*temp531=temp3,*temp532=temp4,*temp533=temp5,*temp534=temp6,*temp535=temp7,*temp536=temp8,*temp537=temp9,*temp538=temp10;
int *temp539=temp,*temp540=temp1,*temp541=temp2,*temp542=temp3,*temp543=temp4,*temp544=temp5,*temp545=temp6,*temp546=temp7,*temp547=temp8,*temp548=temp9,*temp549=temp10;
int *temp550=temp,*temp551=temp1,*temp552=temp2,*temp553=temp3,*temp554=temp4,*temp555=temp5,*temp556=temp6,*temp557=temp7,*temp558=temp8,*temp559=temp9,*temp560=temp10;
int *temp561=temp,*temp562=temp1,*temp563=temp2,*temp564=temp3,*temp565=temp4,*temp566=temp5,*temp567=temp6,*temp568=temp7,*temp569=temp8,*temp570=temp9,*temp571=temp10;
int *temp572=temp,*temp573=temp1,*temp574=temp2,*temp575=temp3,*temp576=temp4,*temp577=temp5,*temp578=temp6,*temp579=temp7,*temp580=temp8,*temp581=temp9,*temp582=temp10;
int *temp583=temp,*temp584=temp1,*temp585=temp2,*temp586=temp3,*temp587=temp4,*temp588=temp5,*temp589=temp6,*temp590=temp7,*temp591=temp8,*temp592=temp9,*temp593=temp10;
int *temp594=temp,*temp595=temp1,*temp596=temp2,*temp597=temp3,*temp598=temp4,*temp599=temp5,*temp600=temp6,*temp601=temp7,*temp602=temp8,*temp603=temp9,*temp604=temp10;
int *temp605=temp,*temp606=temp1,*temp607=temp2,*temp608=temp3,*temp609=temp4,*temp610=temp5,*temp611=temp6,*temp612=temp7,*temp613=temp8,*temp614=temp9,*temp615=temp10;
int *temp616=temp,*temp617=temp1,*temp618=temp2,*temp619=temp3,*temp620=temp4,*temp621=temp5,*temp622=temp6,*temp623=temp7,*temp624=temp8,*temp625=temp9,*temp626=temp10;
int *temp627=temp,*temp628=temp1,*temp629=temp2,*temp630=temp3,*temp631=temp4,*temp632=temp5,*temp633=temp6,*temp634=temp7,*temp635=temp8,*temp636=temp9,*temp637=temp10;
int *temp638=temp,*temp639=temp1,*temp640=temp2,*temp641=temp3,*temp642=temp4,*temp643=temp5,*temp644=temp6,*temp645=temp7,*temp646=temp8,*temp647=temp9,*temp648=temp10;
int *temp649=temp,*temp650=temp1,*temp651=temp2,*temp652=temp3,*temp653=temp4,*temp654=temp5,*temp655=temp6,*temp656=temp7,*temp657=temp8,*temp658=temp9,*temp659=temp10;
int *temp660=temp,*temp661=temp1,*temp662=temp2,*temp663=temp3,*temp664=temp4,*temp665=temp5,*temp666=temp6,*temp667=temp7,*temp668=temp8,*temp669=temp9,*temp670=temp10;
int *temp671=temp,*temp672=temp1,*temp673=temp2,*temp674=temp3,*temp675=temp4,*temp676=temp5,*temp677=temp6,*temp678=temp7,*temp679=temp8,*temp680=temp9,*temp681=temp10;
int *temp682=temp,*temp683=temp1,*temp684=temp2,*temp685=temp3,*temp686=temp4,*temp687=temp5,*temp688=temp6,*temp689=temp7,*temp690=temp8,*temp691=temp9,*temp692=temp10;
int *temp693=temp,*temp694=temp1,*temp695=temp2,*temp696=temp3,*temp697=temp4,*temp698=temp5,*temp699=temp6,*temp700=temp7,*temp701=temp8,*temp702=temp9,*temp703=temp10;
int *temp704=temp,*temp705=temp1,*temp706=temp2,*temp707=temp3,*temp708=temp4,*temp709=temp5,*temp710=temp6,*temp711=temp7,*temp712=temp8,*temp713=temp9,*temp714=temp10;
int *temp715=temp,*temp716=temp1,*temp717=temp2,*temp718=temp3,*temp719=temp4,*temp720=temp5,*temp721=temp6,*temp722=temp7,*temp723=temp8,*temp724=temp9,*temp725=temp10;
int *temp726=temp,*temp727=temp1,*temp728=temp2,*temp729=temp3,*temp730=temp4,*temp731=temp5,*temp732=temp6,*temp733=temp7,*temp734=temp8,*temp735=temp9,*temp736=temp10;
int *temp737=temp,*temp738=temp1,*temp739=temp2,*temp740=temp3,*temp741=temp4,*temp742=temp5,*temp743=temp6,*temp744=temp7,*temp745=temp8,*temp746=temp9,*temp747=temp10;
int *temp748=temp,*temp749=temp1,*temp750=temp2,*temp751=temp3,*temp752=temp4,*temp753=temp5,*temp754=temp6,*temp755=temp7,*temp756=temp8,*temp757=temp9,*temp758=temp10;
int *temp759=temp,*temp760=temp1,*temp761=temp2,*temp762=temp3,*temp763=temp4,*temp764=temp5,*temp765=temp6,*temp766=temp7,*temp767=temp8,*temp768=temp9,*temp769=temp10;
int *temp770=temp,*temp771=temp1,*temp772=temp2,*temp773=temp3,*temp774=temp4,*temp775=temp5,*temp776=temp6,*temp777=temp7,*temp778=temp8,*temp779=temp9,*temp780=temp10;
int *temp781=temp,*temp782=temp1,*temp783=temp2,*temp784=temp3,*temp785=temp4,*temp786=temp5,*temp787=temp6,*temp788=temp7,*temp789=temp8,*temp790=temp9,*temp791=temp10;
int *temp792=temp,*temp793=temp1,*temp794=temp2,*temp795=temp3,*temp796=temp4,*temp797=temp5,*temp798=temp6,*temp799=temp7,*temp800=temp8,*temp801=temp9,*temp802=temp10;
int *temp803=temp,*temp804=temp1,*temp805=temp2,*temp806=temp3,*temp807=temp4,*temp808=temp5,*temp809=temp6,*temp810=temp7,*temp811=temp8,*temp812=temp9,*temp813=temp10;
int *temp814=temp,*temp815=temp1,*temp816=temp2,*temp817=temp3,*temp818=temp4,*temp819=temp5,*temp820=temp6,*temp821=temp7,*temp822=temp8,*temp823=temp9,*temp824=temp10;
int *temp825=temp,*temp826=temp1,*temp827=temp2,*temp828=temp3,*temp829=temp4,*temp830=temp5,*temp831=temp6,*temp832=temp7,*temp833=temp8,*temp834=temp9,*temp835=temp10;
int *temp836=temp,*temp837=temp1,*temp838=temp2,*temp839=temp3,*temp840=temp4,*temp841=temp5,*temp842=temp6,*temp843=temp7,*temp844=temp8,*temp845=temp9,*temp846=temp10;
int *temp847=temp,*temp848=temp1,*temp849=temp2,*temp850=temp3,*temp851=temp4,*temp852=temp5,*temp853=temp6,*temp854=temp7,*temp855=temp8,*temp856=temp9,*temp857=temp10;
int *temp858=temp,*temp859=temp1,*temp860=temp2,*temp861=temp3,*temp862=temp4,*temp863=temp5,*temp864=temp6,*temp865=temp7,*temp866=temp8,*temp867=temp9,*temp868=temp10;
int *temp869=temp,*temp870=temp1,*temp871=temp2,*temp872=temp3,*temp873=temp4,*temp874=temp5,*temp875=temp6,*temp876=temp7,*temp877=temp8,*temp878=temp9,*temp879=temp10;
int *temp880=temp,*temp881=temp1,*temp882=temp2,*temp883=temp3,*temp884=temp4,*temp885=temp5,*temp886=temp6,*temp887=temp7,*temp888=temp8,*temp889=temp9,*temp890=temp10;
int *temp891=temp,*temp892=temp1,*temp893=temp2,*temp894=temp3,*temp895=temp4,*temp896=temp5,*temp897=temp6,*temp898=temp7,*temp899=temp8,*temp900=temp9,*temp901=temp10;
int *temp902=temp,*temp903=temp1,*temp904=temp2,*temp905=temp3,*temp906=temp4,*temp907=temp5,*temp908=temp6,*temp909=temp7,*temp910=temp8,*temp911=temp9,*temp912=temp10;
int *temp913=temp,*temp914=temp1,*temp915=temp2,*temp916=temp3,*temp917=temp4,*temp918=temp5,*temp919=temp6,*temp920=temp7,*temp921=temp8,*temp922=temp9,*temp923=temp10;
int *temp924=temp,*temp925=temp1,*temp926=temp2,*temp927=temp3,*temp928=temp4,*temp929=temp5,*temp930=temp6,*temp931=temp7,*temp932=temp8,*temp933=temp9,*temp934=temp10;
int *temp935=temp,*temp936=temp1,*temp937=temp2,*temp938=temp3,*temp939=temp4,*temp940=temp5,*temp941=temp6,*temp942=temp7,*temp943=temp8,*temp944=temp9,*temp945=temp10;
int *temp946=temp,*temp947=temp1,*temp948=temp2,*temp949=temp3,*temp950=temp4,*temp951=temp5,*temp952=temp6,*temp953=temp7,*temp954=temp8,*temp955=temp9,*temp956=temp10;
int *temp957=temp,*temp958=temp1,*temp959=temp2,*temp960=temp3,*temp961=temp4,*temp962=temp5,*temp963=temp6,*temp964=temp7,*temp965=temp8,*temp966=temp9,*temp967=temp10;
int *temp968=temp,*temp969=temp1,*temp970=temp2,*temp971=temp3,*temp972=temp4,*temp973=temp5,*temp974=temp6,*temp975=temp7,*temp976=temp8,*temp977=temp9,*temp978=temp10;
int *temp979=temp,*temp980=temp1,*temp981=temp2,*temp982=temp3,*temp983=temp4,*temp984=temp5,*temp985=temp6,*temp986=temp7,*temp987=temp8,*temp988=temp9,*temp989=temp10;
int *temp990=temp,*temp991=temp1,*temp992=temp2,*temp993=temp3,*temp994=temp4,*temp995=temp5,*temp996=temp6,*temp997=temp7,*temp998=temp8,*temp999=temp9,*temp1000=temp10;
int *temp1001=temp,*temp1002=temp1,*temp1003=temp2,*temp1004=temp3,*temp1005=temp4,*temp1006=temp5,*temp1007=temp6,*temp1008=temp7,*temp1009=temp8,*temp1010=temp9,*temp1011=temp10;
int *temp1012=temp,*temp1013=temp1,*temp1014=temp2,*temp1015=temp3,*temp1016=temp4,*temp1017=temp5,*temp1018=temp6,*temp1019=temp7,*temp1020=temp8,*temp1021=temp9,*temp1022=temp10;
int *temp1023=temp,*temp1024=temp1,*temp1025=temp2,*temp1026=temp3,*temp1027=temp4,*temp1028=temp5,*temp1029=temp6,*temp1030=temp7,*temp1031=temp8,*temp1032=temp9,*temp1033=temp10;
int *temp1034=temp,*temp1035=temp1,*temp1036=temp2,*temp1037=temp3,*temp1038=temp4,*temp1039=temp5,*temp1040=temp6,*temp1041=temp7,*temp1042=temp8,*temp1043=temp9,*temp1044=temp10;
int *temp1045=temp,*temp1046=temp1,*temp1047=temp2,*temp1048=temp3,*temp1049=temp4,*temp1050=temp5,*temp1051=temp6,*temp1052=temp7,*temp1053=temp8,*temp1054=temp9,*temp1055=temp10;
int *temp1056=temp,*temp1057=temp1,*temp1058=temp2,*temp1059=temp3,*temp1060=temp4,*temp1061=temp5,*temp1062=temp6,*temp1063=temp7,*temp1064=temp8,*temp1065=temp9,*temp1066=temp10;
int *temp1067=temp,*temp1068=temp1,*temp1069=temp2,*temp1070=temp3,*temp1071=temp4,*temp1072=temp5,*temp1073=temp6,*temp1074=temp7,*temp1075=temp8,*temp1076=temp9,*temp1077=temp10;
int *temp1078=temp,*temp1079=temp1,*temp1080=temp2,*temp1081=temp3,*temp1082=temp4,*temp1083=temp5,*temp1084=temp6,*temp1085=temp7,*temp1086=temp8,*temp1087=temp9,*temp1088=temp10;
int *temp1089=temp,*temp1090=temp1,*temp1091=temp2,*temp1092=temp3,*temp1093=temp4,*temp1094=temp5,*temp1095=temp6,*temp1096=temp7,*temp1097=temp8,*temp1098=temp9,*temp1099=temp10;
int *temp1100=temp,*temp1101=temp1,*temp1102=temp2,*temp1103=temp3,*temp1104=temp4,*temp1105=temp5,*temp1106=temp6,*temp1107=temp7,*temp1108=temp8,*temp1109=temp9,*temp1110=temp10;
int *temp1111=temp,*temp1112=temp1,*temp1113=temp2,*temp1114=temp3,*temp1115=temp4,*temp1116=temp5,*temp1117=temp6,*temp1118=temp7,*temp1119=temp8,*temp1120=temp9,*temp1121=temp10;
int *temp1122=temp,*temp1123=temp1,*temp1124=temp2,*temp1125=temp3,*temp1126=temp4,*temp1127=temp5,*temp1128=temp6,*temp1129=temp7,*temp1130=temp8,*temp1131=temp9,*temp1132=temp10;
int *temp1133=temp,*temp1134=temp1,*temp1135=temp2,*temp1136=temp3,*temp1137=temp4,*temp1138=temp5,*temp1139=temp6,*temp1140=temp7,*temp1141=temp8,*temp1142=temp9,*temp1143=temp10;
int *temp1144=temp,*temp1145=temp1,*temp1146=temp2,*temp1147=temp3,*temp1148=temp4,*temp1149=temp5,*temp1150=temp6,*temp1151=temp7,*temp1152=temp8,*temp1153=temp9,*temp1154=temp10;
int *temp1155=temp,*temp1156=temp1,*temp1157=temp2,*temp1158=temp3,*temp1159=temp4,*temp1160=temp5,*temp1161=temp6,*temp1162=temp7,*temp1163=temp8,*temp1164=temp9,*temp1165=temp10;
int *temp1166=temp,*temp1167=temp1,*temp1168=temp2,*temp1169=temp3,*temp1170=temp4,*temp1171=temp5,*temp1172=temp6,*temp1173=temp7,*temp1174=temp8,*temp1175=temp9,*temp1176=temp10;
int *temp1177=temp,*temp1178=temp1,*temp1179=temp2,*temp1180=temp3,*temp1181=temp4,*temp1182=temp5,*temp1183=temp6,*temp1184=temp7,*temp1185=temp8,*temp1186=temp9,*temp1187=temp10;
int *temp1188=temp,*temp1189=temp1,*temp1190=temp2,*temp1191=temp3,*temp1192=temp4,*temp1193=temp5,*temp1194=temp6,*temp1195=temp7,*temp1196=temp8,*temp1197=temp9,*temp1198=temp10;
int *temp1199=temp,*temp1200=temp1,*temp1201=temp2,*temp1202=temp3,*temp1203=temp4,*temp1204=temp5,*temp1205=temp6,*temp1206=temp7,*temp1207=temp8,*temp1208=temp9,*temp1209=temp10;
int *temp1210=temp,*temp1211=temp1,*temp1212=temp2,*temp1213=temp3,*temp1214=temp4,*temp1215=temp5,*temp1216=temp6,*temp1217=temp7,*temp1218=temp8,*temp1219=temp9,*temp1220=temp10;
int *temp1221=temp,*temp1222=temp1,*temp1223=temp2,*temp1224=temp3,*temp1225=temp4,*temp1226=temp5,*temp1227=temp6,*temp1228=temp7,*temp1229=temp8,*temp1230=temp9,*temp1231=temp10;
int *temp1232=temp,*temp1233=temp1,*temp1234=temp2,*temp1235=temp3,*temp1236=temp4,*temp1237=temp5,*temp1238=temp6,*temp1239=temp7,*temp1240=temp8,*temp1241=temp9,*temp1242=temp10;
int *temp1243=temp,*temp1244=temp1,*temp1245=temp2,*temp1246=temp3,*temp1247=temp4,*temp1248=temp5,*temp1249=temp6,*temp1250=temp7,*temp1251=temp8,*temp1252=temp9,*temp1253=temp10;
int *temp1254=temp,*temp1255=temp1,*temp1256=temp2,*temp1257=temp3,*temp1258=temp4,*temp1259=temp5,*temp1260=temp6,*temp1261=temp7,*temp1262=temp8,*temp1263=temp9,*temp1264=temp10;
int *temp1265=temp,*temp1266=temp1,*temp1267=temp2,*temp1268=temp3,*temp1269=temp4,*temp1270=temp5,*temp1271=temp6,*temp1272=temp7,*temp1273=temp8,*temp1274=temp9,*temp1275=temp10;
int *temp1276=temp,*temp1277=temp1,*temp1278=temp2,*temp1279=temp3,*temp1280=temp4,*temp1281=temp5,*temp1282=temp6,*temp1283=temp7,*temp1284=temp8,*temp1285=temp9,*temp1286=temp10;
int *temp1287=temp,*temp1288=temp1,*temp1289=temp2,*temp1290=temp3,*temp1291=temp4,*temp1292=temp5,*temp1293=temp6,*temp1294=temp7,*temp1295=temp8,*temp1296=temp9,*temp1297=temp10;
int *temp1298=temp,*temp1299=temp1,*temp1300=temp2,*temp1301=temp3,*temp1302=temp4,*temp1303=temp5,*temp1304=temp6,*temp1305=temp7,*temp1306=temp8,*temp1307=temp9,*temp1308=temp10;
int *temp1309=temp,*temp1310=temp1,*temp1311=temp2,*temp1312=temp3,*temp1313=temp4,*temp1314=temp5,*temp1315=temp6,*temp1316=temp7,*temp1317=temp8,*temp1318=temp9,*temp1319=temp10;
int *temp1320=temp,*temp1321=temp1,*temp1322=temp2,*temp1323=temp3,*temp1324=temp4,*temp1325=temp5,*temp1326=temp6,*temp1327=temp7,*temp1328=temp8,*temp1329=temp9,*temp1330=temp10;
int *temp1331=temp,*temp1332=temp1,*temp1333=temp2,*temp1334=temp3,*temp1335=temp4,*temp1336=temp5,*temp1337=temp6,*temp1338=temp7,*temp1339=temp8,*temp1340=temp9,*temp1341=temp10;
int *temp1342=temp,*temp1343=temp1,*temp1344=temp2,*temp1345=temp3,*temp1346=temp4,*temp1347=temp5,*temp1348=temp6,*temp1349=temp7,*temp1350=temp8,*temp1351=temp9,*temp1352=temp10;
int *temp1353=temp,*temp1354=temp1,*temp1355=temp2,*temp1356=temp3,*temp1357=temp4,*temp1358=temp5,*temp1359=temp6,*temp1360=temp7,*temp1361=temp8,*temp1362=temp9,*temp1363=temp10;
int *temp1364=temp,*temp1365=temp1,*temp1366=temp2,*temp1367=temp3,*temp1368=temp4,*temp1369=temp5,*temp1370=temp6,*temp1371=temp7,*temp1372=temp8,*temp1373=temp9,*temp1374=temp10;
int *temp1375=temp,*temp1376=temp1,*temp1377=temp2,*temp1378=temp3,*temp1379=temp4,*temp1380=temp5,*temp1381=temp6,*temp1382=temp7,*temp1383=temp8,*temp1384=temp9,*temp1385=temp10;
int *temp1386=temp,*temp1387=temp1,*temp1388=temp2,*temp1389=temp3,*temp1390=temp4,*temp1391=temp5,*temp1392=temp6,*temp1393=temp7,*temp1394=temp8,*temp1395=temp9,*temp1396=temp10;
int *temp1397=temp,*temp1398=temp1,*temp1399=temp2,*temp1400=temp3,*temp1401=temp4,*temp1402=temp5,*temp1403=temp6,*temp1404=temp7,*temp1405=temp8,*temp1406=temp9,*temp1407=temp10;
int *temp1408=temp,*temp1409=temp1,*temp1410=temp2,*temp1411=temp3,*temp1412=temp4,*temp1413=temp5,*temp1414=temp6,*temp1415=temp7,*temp1416=temp8,*temp1417=temp9,*temp1418=temp10;
int *temp1419=temp,*temp1420=temp1,*temp1421=temp2,*temp1422=temp3,*temp1423=temp4,*temp1424=temp5,*temp1425=temp6,*temp1426=temp7,*temp1427=temp8,*temp1428=temp9,*temp1429=temp10;
int *temp1430=temp,*temp1431=temp1,*temp1432=temp2,*temp1433=temp3,*temp1434=temp4,*temp1435=temp5,*temp1436=temp6,*temp1437=temp7,*temp1438=temp8,*temp1439=temp9,*temp1440=temp10;
int *temp1441=temp,*temp1442=temp1,*temp1443=temp2,*temp1444=temp3,*temp1445=temp4,*temp1446=temp5,*temp1447=temp6,*temp1448=temp7,*temp1449=temp8,*temp1450=temp9,*temp1451=temp10;
int *temp1452=temp,*temp1453=temp1,*temp1454=temp2,*temp1455=temp3,*temp1456=temp4,*temp1457=temp5,*temp1458=temp6,*temp1459=temp7,*temp1460=temp8,*temp1461=temp9,*temp1462=temp10;
int *temp1463=temp,*temp1464=temp1,*temp1465=temp2,*temp1466=temp3,*temp1467=temp4,*temp1468=temp5,*temp1469=temp6,*temp1470=temp7,*temp1471=temp8,*temp1472=temp9,*temp1473=temp10;
int *temp1474=temp,*temp1475=temp1,*temp1476=temp2,*temp1477=temp3,*temp1478=temp4,*temp1479=temp5,*temp1480=temp6,*temp1481=temp7,*temp1482=temp8,*temp1483=temp9,*temp1484=temp10;
int *temp1485=temp,*temp1486=temp1,*temp1487=temp2,*temp1488=temp3,*temp1489=temp4,*temp1490=temp5,*temp1491=temp6,*temp1492=temp7,*temp1493=temp8,*temp1494=temp9,*temp1495=temp10;
int *temp1496=temp,*temp1497=temp1,*temp1498=temp2,*temp1499=temp3,*temp1500=temp4,*temp1501=temp5,*temp1502=temp6,*temp1503=temp7,*temp1504=temp8,*temp1505=temp9,*temp1506=temp10;
int *temp1507=temp,*temp1508=temp1,*temp1509=temp2,*temp1510=temp3,*temp1511=temp4,*temp1512=temp5,*temp1513=temp6,*temp1514=temp7,*temp1515=temp8,*temp1516=temp9,*temp1517=temp10;
int *temp1518=temp,*temp1519=temp1,*temp1520=temp2,*temp1521=temp3,*temp1522=temp4,*temp1523=temp5,*temp1524=temp6,*temp1525=temp7,*temp1526=temp8,*temp1527=temp9,*temp1528=temp10;
int *temp1529=temp,*temp1530=temp1,*temp1531=temp2,*temp1532=temp3,*temp1533=temp4,*temp1534=temp5,*temp1535=temp6,*temp1536=temp7,*temp1537=temp8,*temp1538=temp9,*temp1539=temp10;
int *temp1540=temp,*temp1541=temp1,*temp1542=temp2,*temp1543=temp3,*temp1544=temp4,*temp1545=temp5,*temp1546=temp6,*temp1547=temp7,*temp1548=temp8,*temp1549=temp9,*temp1550=temp10;
int *temp1551=temp,*temp1552=temp1,*temp1553=temp2,*temp1554=temp3,*temp1555=temp4,*temp1556=temp5,*temp1557=temp6,*temp1558=temp7,*temp1559=temp8,*temp1560=temp9,*temp1561=temp10;
int *temp1562=temp,*temp1563=temp1,*temp1564=temp2,*temp1565=temp3,*temp1566=temp4,*temp1567=temp5,*temp1568=temp6,*temp1569=temp7,*temp1570=temp8,*temp1571=temp9,*temp1572=temp10;
int *temp1573=temp,*temp1574=temp1,*temp1575=temp2,*temp1576=temp3,*temp1577=temp4,*temp1578=temp5,*temp1579=temp6,*temp1580=temp7,*temp1581=temp8,*temp1582=temp9,*temp1583=temp10;
int *temp1584=temp,*temp1585=temp1,*temp1586=temp2,*temp1587=temp3,*temp1588=temp4,*temp1589=temp5,*temp1590=temp6,*temp1591=temp7,*temp1592=temp8,*temp1593=temp9,*temp1594=temp10;
int *temp1595=temp,*temp1596=temp1,*temp1597=temp2,*temp1598=temp3,*temp1599=temp4,*temp1600
```

Input: Manual
Output: Manual
Prog Language: C

Input Format

Size - no. of elements in array 1

Array elements for array 1

Size - no. of elements in array 2

Array elements for array2

Output Format

Display the merged array

Sample Input 1

```
5
1
2
3
4
5
6
7
8
9
10
```

Sample Output 1

1 2 3 4 5 6 7 8 9 10

Answer (penalty regime: 0 %)

```
#include <stdio.h>
int main()
{
    int n1, n2, temp=0;
    int *arr1, *arr2, *arr3;
    scanf(%d,&n1);
    arr1=(int*)malloc(n1*sizeof(int));
    int i=0;
    while(i<n1)
    {
        scanf(%d,&arr1[i]);
        i=i+1;
    }
    scanf(%d,&n2);
    arr2=(int*)malloc(n2*sizeof(int));
    int j=0;
    while(j<n2)
    {
        scanf(%d,&arr2[j]);
        j=j+1;
    }
    int *arr3=(int*)malloc(n1+n2*sizeof(int));
    int k=0;
    while(k<n1+n2-1)
    {
        if(arr1[k]>arr2[k])
        {
            temp=arr1[k];
            arr1[k]=arr2[k];
            arr2[k]=temp;
        }
        arr3[k]=arr1[k];
        k=k+1;
    }
    int l=0;
    while(l<n1+n2-1)
    {
        if(arr3[l]>arr3[l+1])
        {
            temp=arr3[l];
            arr3[l]=arr3[l+1];
            arr3[l+1]=temp;
            l=0;
        }
        else
        {
            l=l+1;
        }
    }
    int m=0;
    while(m<n1+n2-1)
    {
        printf(%d,arr3[m]);
        m=m+1;
    }
}
```

Input	Expected	Got
5 1 2 3 4 5 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10

Passed all tests! ✓

Marks for this submission: 100/100.

Question **2**
Complete
Marks: 100 out of 100
Flag question

Program to print all the distinct elements in an array. Distinct elements are nothing but the unique (non-duplicate) elements present in the given array.

Input Format

First line is the size of integer input from stdin which is array length n.

Second line takes n integers which is input of array

Output Format:

Print the Distinct Elements in array in single line which is space Separated

Sample Input:

```
5
1
2
3
4
4
```

Output:

1 2 3 4

Example Input:

```
5
1
1
1
1
1
```

Output:

1 2

For example:

Input	Result
5 1 2 3 4 4	1 2 3 4
5 1 1 1 1 1	1 2

Answer (penalty regime: 0 %)

```
#include <stdio.h>
int main()
{
    int n, temp=0;
    int *arr, *arr1;
    scanf(%d,&n);
    arr=(int*)malloc(n*sizeof(int));
    int i=0;
    while(i<n)
    {
        scanf(%d,&arr[i]);
        i=i+1;
    }
    int *arr2=(int*)malloc(n*sizeof(int));
    int j=0;
    while(j<n)
    {
        arr2[j]=arr[j];
        j=j+1;
    }
    int k=0;
    while(k<n-1)
    {
        if(arr[k]>arr[k+1])
        {
            temp=arr[k];
            arr[k]=arr[k+1];
            arr[k+1]=temp;
            k=0;
        }
        else
        {
            k=k+1;
        }
    }
    int l=0;
    while(l<n-1)
    {
        if(arr[l]==arr[l+1])
        {
            arr[l]=-1;
            l=l+1;
        }
        else
        {
            l=l+1;
        }
    }
    int m=0;
    while(m<n-1)
    {
        if(arr[m]==-1)
        {
            int *temp1=(int*)malloc(n-1*sizeof(int));
            int *temp2=(int*)malloc(n-1*sizeof(int));
            int o=0;
            int p=0;
            int q=0;
            while(o<m)
            {
                temp1[o]=arr[o];
                o=o+1;
            }
            while(p<n-m-1)
            {
                temp2[p]=arr[m+1+p];
                p=p+1;
            }
            while(q<n-1)
            {
                if(q<m)
                {
                    arr[q]=temp1[q];
                }
                else
                {
                    arr[q]=temp2[q-m];
                }
                q=q+1;
            }
            m=0;
            free(temp1);
            free(temp2);
            n=n-1;
            printf(%d,n);
            printf(%d,n);
            printf(%d,n);
```

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Quiz navigation

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Finish review

Started on	Sunday, 12 May 2024, 2:30 PM
State	Finished
Completed on	Sunday, 12 May 2024, 2:45 PM
Time taken	15 mins 5 secs
Grade	**14.00** out of 15.00 (**93.33**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

Find the output?

```
list3=[]
list1 = 'REC_CSE_ECE'
list2= list1.split('_')
for i in list2:
  list3.extend(i)
print(list3)
```

- a. Error
- b. ['R', 'E', 'C', 'C', 'S', 'E', 'E', 'C', 'E'] ☐
- c. ['REC', 'CSE', 'ECE']
- d. ['REC_CSE_ECE']

Your answer is correct.
The correct answer is:
['R', 'E', 'C', 'C', 'S', 'E', 'E', 'C', 'E']

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

Find the output?

```
list1 = [1, 2, 3, 4]
list1.append([5,6,7,8])
print(list1)
```

- a. [1,2,3,4][5,6,7,8]
- b. [1,2,3,4,5,6,7,8]
- c. [1,2,3,4,[5,6,7,8]] ☐
- d. [1,2,3,4]

Your answer is correct.
The correct answer is:
[1,2,3,4,[5,6,7,8]]

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

L={'Amit','Anita','Zee','Longest Word'}
print(max(L))

Answer: Zee ☐

The correct answer is: Zee

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

```
list1 = [1, 2, 3, 4,1,2,3,1]
list2 = list1.copy()
list1.clear()
print(list2)
```

Find the output?

- a. []
- b. [1, 2, 3, 4, 1, 2, 3, 1] ☐
- c. [1, 1, 2, 2, 3, 3, 4,]
- d. [1, 2, 3, 4]

Your answer is correct.
The correct answer is:
[1, 2, 3, 4, 1, 2, 3, 1]

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

```
1. def f(values):
2.     values[0] = 44
3. v = [1, 2, 3]
4. f(v)
5. print(v)
```

Answer: [44, 2, 3] ☐

The correct answer is: [44, 2, 3]

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code?

```
list1 = ["hi", "we", "are", "the", "elements", "in", "a", "list"]
for i in list1:
    print(list1[i])
```

- a. hi hi hi hi hi hi hi hi
- b. hi we are the elements in a list
- c. error ☐
- d. hi

Your answer is correct.
The correct answer is:
error

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following code?

```
list1 = ["hi", "we", "are", "the", "elements", "in", "a", "list"]
for i in range(4):
    print(list1[i])
```

- a. hi we are
- b. hi we are the ☐
- c. hi we are the elements in a list
- d. hi we are the elements

Your answer is correct.
The correct answer is:
hi we are the

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

Find the output?

```
list1 = [1, 2, 3, 4,[2,3]
list1.reverse()
print(list1)
```

- a. [1, 1, 2, 2, 3, 3, 4]
- b. [4, 3, 3, 2, 2, 1, 1]
- c. [1, 2, 3, 4, 1, 2, 3]
- d. [3, 2, 1, 4, 3, 2, 1] ☐

Your answer is correct.
The correct answer is:
[3, 2, 1, 4, 3, 2, 1]

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

Find the output?

```
list1 = list('REC_CSE_ECE')
print(list1.index('_'))
```

- a. AttributeError: 'list' object has no attribute 'index'
- b. 3 ☐
- c. 4
- d. -4

Your answer is correct.
The correct answer is:
3

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output after the following statements?
m = [45, 51, 67]
n = m[2]
print(n)

- a. 45
- b. [45, 51, 67]
- c. 67 ☐
- d. 51

Your answer is correct.
The correct answer is:
67

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output when we execute list("welcome")

- a. c['emoclew']
- b. b['welcome']
- c. a['w', 'e', 'l', 'c', 'o', 'm', 'e'] ☐

Your answer is correct.
The correct answer is:
a['w', 'e', 'l', 'c', 'o', 'm', 'e']

Question **12**
Correct
Mark 1.00 out of 1.00
Flag question

Find the output?

```
list1 = list('REC_CSE_ECE')
print('r' not in list1)
```

- a. true
- b. True ☐
- c. false
- d. False

Your answer is correct.
The correct answer is:
True

Question **13**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output after the following statements?
m = [10, 25, 35]
n = sum(m)
print(n)

- a. 25
- b. 35
- c. 70 ☐
- d. 10

Your answer is correct.
The correct answer is:
70

Question **14**
Incorrect
Mark 0.00 out of 1.00
Flag question

In the given program if extend() is used instead of append() than what will be the output?

```
list1 = [1, 2, 3, 4]
list1.append([5,6,7,8])
print(list1)
```

- a. [1,2,3,4,[5,6,7,8]] ☐
- b. [1,2,3,4,5,6,7,8]
- c. [1,2,3,4][5,6,7,8]
- d. [1,2,3,4]

Your answer is incorrect.
The correct answer is:
[1,2,3,4,5,6,7,8]

Question **15**
Correct
Mark 1.00 out of 1.00
Flag question

What is the data type of m after the following statement?
m = ['July', 'September', 'December']

- a. Tuple
- b. Dictionary
- c. String
- d. List ☐

Your answer is correct.
The correct answer is:
List

Finish review

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Quiz navigation

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Show one page at a time

Finish review

Started on	Monday, 20 May 2024, 2:47 PM
State	Finished
Completed on	Wednesday, 22 May 2024, 2:47 PM
Time taken	2 days
Marks	4.00/5.00
Grade	80.00 out of 100.00

Question 1
Correct
Mark 1.00 out of 1.00
Flag question

Given an array of integers `nums` containing `n + 1` integers where each integer is in the range `[1, n]` inclusive.There is only **one repeated number** in `nums`, return this *repeated number*. Solve the problem using set.

Example 1:

```
Input: nums = [1,3,4,2,2]

Output: 2
```

Example 2:

```
Input: nums = [3,1,3,4,2]

Output: 3
```

For example:

Input	Result
1 3 4 4 2	4

Answer: (penalty regime: 0 %)

```
def dup_num(n):
    seen = set()
    for i in nums:
        if i in seen:
            return i
        seen.add(i)

input_string = input()
nums = list(input_string.split())

print(dup_num(nums))
```

	Input	Expected	Got	
☐	1 3 4 4 2	4	4	☐
☐	3 2 2 4 5 6 7 2	2	2	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Question 2
Correct
Mark 1.00 out of 1.00
Flag question

Given a tuple and a positive integer k, the task is to find the count of distinct pairs in the tuple whose sum is equal to **K**.

Examples:

Input : t = (5, 6, 5, 7, 7, 8), K = 13
Output : 2
Explanation:
Pairs with sum K = 13 are (5, 8), (6, 7), (6, 7).
Therefore, distinct pairs with sum K = 13 are (5, 8), (6, 7).
Therefore, the required output is 2.

For example:

Input	Result
5,6,5,7,7,8 13	2
1,2,3,4,5 6	1
1,2 4	0

Answer: (penalty regime: 0 %)

```
def count_distinct_pairs(t, k):
    pair_counts = set()
    for i in range(len(t)):
        for j in range(i + 1, len(t)):
            if t[i] + t[j] == k:
                pair_counts.add(tuple(sorted([t[i], t[j]])))
    return len(pair_counts)

t = tuple(map(int, input().split(',')))
k = int(input())
print(count_distinct_pairs(t, k))
```

	Input	Expected	Got	
☐	5,6,5,7,7,8 13	2	2	☐
☐	1,2,3,4,5 6	1	1	☐
☐	1,2 4	0	0	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Question 3
Incorrect
Mark 0.00 out of 1.00
Remove flag

There is a malfunctioning keyboard where some letter keys do not work. All other keys on the keyboard work properly.
Given a string text of words separated by a single space (no leading or trailing spaces) and a string brokenLetters of all distinct letter keys that are broken, return the number of words in text you can fully type using this keyboard.

Example 1:

Input: text = "hello world", brokenLetters = "ad"

Output:

1

Explanation: We cannot type "world" because the 'd' key is broken.

For example:

Input	Result
hello world ad	1
Faculty Upskilling In Python Programming am	2

Answer: (penalty regime: 0 %)

```
# Input handling
text = input().strip()
brokenLetters = input().strip()

# Split the input text into words
words = text.split()

# Create a set of broken letters (case-sensitive)
broken_set = set(brokenLetters)

# Initialize a counter for fully typable words
count = 0

# Iterate over each word and check if it can be fully typed
for word in words:
    if all(char not in broken_set for char in word):
        count += 1

# Print the result
print(count)
```

	Input	Expected	Got	
☐	hello world ad	1	1	☐
☐	welcome to REC e	1	2	☐
☐	Faculty Upskilling In Python Programming am	2	2	☐

Your code must pass all tests to earn any marks. Try again.

Show differences

Incorrect

Marks for this submission: 0.00/1.00.

Question 4
Correct
Mark 1.00 out of 1.00
Flag question

Given an array of strings `words`, *return the words that can be typed using letters of the alphabet on only one row of American keyboard like the image below.*

In the **American keyboard**

- the first row consists of the characters `"qwertyuiop"`,
- the second row consists of the characters `"asdfghjkl"`, and
- the third row consists of the characters `"zxcvbnm"`.

Example 1:

```
Input: words = ["Hello","Alaska","Dad","Peace"]
Output: ["Alaska","Dad"]
```

Example 2:

```
Input: words = ["omk"]
Output: []
```

Example 3:

```
Input: words = ["adsdf","sfd"]
Output: ["adsdf","sfd"]
```

For example:

Input	Result
4 Hello Alaska Dad Peace	Alaska Dad
2 adsfd sfd	adsfd sfd

Answer: (penalty regime: 0 %)

```
def find_words_in_one_row(words):
    # Define the keyboard rows
    row1 = set("qwertyuiop")
    row2 = set("asdfghjkl")
    row3 = set("zxcvbnm")

    result = []

    for word in words:
        word_set = set(word.lower())
        # Check if word can be typed using only one row
        if word_set <= row1 or word_set <= row2 or word_set <= row3:
            result.append(word)

    return result

# Input handling
n = int(input())
words = [input().strip() for _ in range(n)]
output_words = find_words_in_one_row(words)

if output_words:
    for word in output_words:
        print(word)
else:
    print("No words")
```

	Input	Expected	Got	
☐	4 Hello Alaska Dad Peace	Alaska Dad	Alaska Dad	☐
☐	1 omk	No words	No words	☐
☐	2 adsfd sfd	adsfd sfd	adsfd sfd	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Question 5
Correct
Mark 1.00 out of 1.00
Flag question

Write a program to eliminate the common elements in the given 2 arrays and print only the non-repeating elements and the total number of such non-repeating elements.

Input Format:

The first line contains space-separated values, denoting the size of the two arrays in integer format respectively.

The next two lines contain the space-separated integer arrays to be compared.

Sample Input:

5 4

1 2 0 6 5

2 6 8 10

Sample Output:

1 5 10

3

Sample Input:

5 5

1 2 3 4 5

1 2 3 4 5

Sample Output:

NO SUCH ELEMENTS

For example:

Input	Result
5 4 1 2 0 6 5 2 6 8 10	1 5 10 3

Answer: (penalty regime: 0 %)

```
size1, size2 = map(int, input().split())

arr1 = list(map(int, input().split()))
arr2 = list(map(int, input().split()))

set1 = set(arr1)
set2 = set(arr2)

non_repeating_elements = list(set1.symmetric_difference(set2))

if non_repeating_elements:
    print(" ".join(map(str, sorted(non_repeating_elements))))
    print(len(non_repeating_elements))
else:
    print("NO SUCH ELEMENTS")
```

	Input	Expected	Got	
☐	5 4 1 2 0 6 5 2 6 8 10	1 5 10 3	1 5 10 3	☐
☐	5 5 1 2 3 4 5 10 10 10 10 10	11 12 2	11 12 2	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Finish review

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PSPP/PUP

Data retention summary

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Question **1**
Correct
Mark 100 out of 100.
Flag question

Started on	Tuesday, 28 May 2024, 7:59 PM
State	Finished
Completed on	Tuesday, 28 May 2024, 8:19 PM
Time taken	19 mins 41 secs
Marks	5.00/5.00
Grade	**100.00** out of 100.00

A sentence is a string of single-space separated words where each word consists only of lowercase letters.A word is uncommon if it appears exactly once in one of the sentences, and does not appear in the other sentence.

Given two sentences s1 and s2, return a list of all the uncommon words. You may return the answer in any order.

Example 1:

Input: s1 = "this apple is sweet", s2 = "this apple is sour"

Output:["sweet","sour"]

Example 2:

Input: s1 = "apple apple", s2 = "banana"

Output: ["banana"]

Constraints:

1 <= s1.length, s2.length <= 200

s1 and s2 consist of lowercase English letters and spaces.

s1 and s2 do not have leading or trailing spaces.

All the words in s1 and s2 are separated by a single space.

Note:

Use dictionary to solve the problem

For example:

Input	Result
this apple is sweet this apple is sour	['sweet', 'sour']

Answer: (penalty regime: 0 %)

```
s1 = input().strip()
s2 = input().strip()

words = s1.split()
words2 = s2.split()

freq = {}
freq2 = {}

for word in words:
    if word in freq:
        freq[word] += 1
    else:
        freq[word] = 1

for word in words2:
    if word in freq:
        freq[word] += 1
    else:
        freq[word] = 1

uncommon_words = []
for word in freq:
    if freq[word] == 1 and word not in freq:
        uncommon_words.append(word)

for word in freq:
    if freq[word] == 1 and word not in freq:
        uncommon_words.append(word)

print(" ".join(uncommon_words))
```

	Input	Expected	Got	
✓	this apple is sweet this apple is sour	['sweet', 'sour']	['sweet', 'sour']	
✓	apple apple banana	['banana']	['banana']	

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **2**
Correct
Mark 100 out of 100.
Flag question

Given an array of names of candidates in an election. A candidate name in the array represents a vote cast to the candidate. Print the name of candidates received Max vote. If there is tie, print a lexicographically smaller name.

Examples:

Input : votes[] = {"John", "Johny", "Jackie",
"Johny", "John", "Jackie",
"Jamie", "Jamie", "John",
"Johny", "Jamie", "Johny",
"John"}

Output : John

We have four Candidates with name as 'John', 'Johny', 'Jamie', 'Jackie'. The candidates John and Johny get maximum votes. Since John is alphabetically smaller, we print it. Use dictionary to solve the above problem

Sample Input:

10
John
John
Johny
Jamie
Jamie
Johny
Jack
Johny
Johny
Jackie

Sample Output:

Johny

Answer: (penalty regime: 0 %)

```
n = int(input().strip())

vote_count = {}

for _ in range(n):
    candidate = input().strip()
    if candidate in vote_count:
        vote_count[candidate] += 1
    else:
        vote_count[candidate] = 1

max_votes = 0
winner = ""

for candidate, votes in vote_count.items():
    if votes > max_votes or (votes == max_votes and candidate < winner):
        max_votes = votes
        winner = candidate

print(winner)
```

	Input	Expected	Got	
✓	10 John John Johny Jamie Jamie Johny Jack Johny Johny Jackie	Johny	Johny	
✓	4 Ida Ida Ida Kirabo Kirabo Kirabo	Ida	Ida	

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 100 out of 100.
Flag question

In the game of Scrabble®, each letter has points associated with it. The total score of a word is the sum of the scores of its letters. More common letters are worth fewer points while less common letters are worth more points. The points associated with each letter are shown below:

Points Letters

- 1 A, E, I, L, N, O, R, S, T and U
- 2 D and G
- 3 B, C, M and P
- 4 F, H, V, W and Y
- 5 K
- 8 J and X
- 10 Q and Z

Write a program that computes and displays the Scrabble™ score for a word. Create a dictionary that maps from letters to point values. Then use the dictionary to compute the score.

A Scrabble™ board includes some squares that multiply the value of a letter or the value of an entire word. We will ignore these squares in this exercise.

Sample Input

REC

Sample Output

REC is worth 5 points.

For example:

Input	Result
REC	REC is worth 5 points.

Answer: (penalty regime: 0 %)

```
letter_points = {
    'A': 1, 'E': 1, 'I': 1, 'L': 1, 'N': 1, 'O': 1, 'R': 1, 'S': 1, 'T': 1, 'U': 1,
    'D': 2, 'G': 2,
    'B': 3, 'C': 3, 'M': 3, 'P': 3,
    'F': 4, 'H': 4, 'V': 4, 'W': 4, 'Y': 4,
    'K': 5,
    'J': 8, 'X': 8,
    'Q': 10, 'Z': 10
}

word = input().strip().upper()

score = 0

for letter in word:
    score += letter_points.get(letter, 0)

print(f"{word} is worth {score} points.")
```

	Input	Expected	Got	
✓	BOB	BOB is worth 9 points.	BOB is worth 9 points.	
✓	REC	REC is worth 5 points.	REC is worth 5 points.	

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **4**
Correct
Mark 100 out of 100.
Flag question

Create a student dictionary for n students with the student name as key and their test mark assignment mark and lab mark as values. Do the following computations and display the result.

1.Identify the student with the highest average score

2.Identify the student who as the highest Assignment marks

3.Identify the student with the Lowest lab marks

4.Identify the student with the lowest average score

Note:

If more than one student has the same score display all the student names

Sample Input:

4

James 67 89 56

Lalith 89 45 45

Ram 89 89 89

Sita 70 70 70

Sample Output:

Ram

James Ram

Lalith

Lalith

For example:

Input	Result
4 James 67 89 56 Lalith 89 45 45 Ram 89 89 89 Sita 70 70 70	James Ram Lalith Lalith

Answer: (penalty regime: 0 %)

```
def compute_student_statistics(n, student_data):
    students = {}

    for data in student_data:
        parts = data.split()
        name = parts[0]
        scores = [int(x) for x in parts[1:]]
        students[name] = parts + [round(sum(scores) / 3)]

    highest_avg, highest_assign, lowest_lab, lowest_avg = [], [], [], []
    highest_avg_score = highest_assign_score = float('-inf')
    lowest_lab_score = lowest_avg_score = float('inf')

    for name, marks in students.items():
        avg_score = marks[3]

        if avg_score > highest_avg_score:
            highest_avg, highest_avg_score = [name], avg_score
        elif avg_score == highest_avg_score:
            highest_avg.append(name)

        if marks[1] > highest_assign_score:
            highest_assign, highest_assign_score = [name], marks[1]
        elif marks[1] == highest_assign_score:
            highest_assign.append(name)

        if marks[2] < lowest_lab_score:
            lowest_lab, lowest_lab_score = [name], marks[2]
        elif marks[2] == lowest_lab_score:
            lowest_lab.append(name)

        if avg_score < lowest_avg_score:
            lowest_avg, lowest_avg_score = [name], avg_score
        elif avg_score == lowest_avg_score:
            lowest_avg.append(name)

    print(' '.join(sorted(highest_avg)))
    print(' '.join(sorted(highest_assign)))
    print(' '.join(sorted(lowest_lab)))
    print(' '.join(sorted(lowest_avg)))

n = int(input().strip())
student_data = [input().strip() for _ in range(n)]

compute_student_statistics(n, student_data)
```

	Input	Expected	Got	
✓	4 James 67 89 56 Lalith 89 45 45 Ram 89 89 89 Sita 70 70 70	James Ram Lalith Lalith	James Ram Lalith Lalith	
✓	3 Kaya 65 67 66 Shadhana 89 89 89 Shadhana 90 90 90	Shadhana Shadhana Shadhana Kaya	Shadhana Shadhana Shadhana Kaya	

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

Question **5**
Correct
Mark 100 out of 100.
Flag question

Give a dictionary with value lists, sort the keys by summation of values in value list.

Input : test_dict = {'Gfg' : [8, 7, 4], 'Best' : [7, 6, 5]}

Output : {'Gfg' : 17, 'Best' : 18}

Explanation : Sorted by sum, and replaced.

Input : test_dict = {'Gfg' : [8,8], 'Best' : [5,5]}

Output : {'Best' : 10, 'Gfg' : 16}

Explanation : Sorted by sum, and replaced.

Sample Input

2

Gfg 8 7 4

Best 7 6 5

Sample Output

Gfg 17

Best 18

For example:

Input	Result
2 Gfg 8 7 4 Best 7 6 5	Gfg 17 Best 18

Answer: (penalty regime: 0 %)

```
n = int(input().strip())

test_cases = {}

for _ in range(n):
    key, values = input().strip().split()

    values = list(map(int, values))

    test_cases[key] = sum(values)

sorted_test_cases = dict(sorted(test_cases.items(), key=lambda item: item[1]))

for key, value in sorted_test_cases.items():
    print(key, value)
```

	Input	Expected	Got	
✓	2 Gfg 8 7 4 Best 7 6 5	Gfg 17 Best 18	Gfg 17 Best 18	
✓	2 Gfg 8 8 Best 5 5	Best 10 Gfg 16	Best 10 Gfg 16	

Passed all tests! ✓

Marks for this submission: 1.00/1.00.

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Started on	Tuesday, 28 May 2024, 8:20 PM
State	Finished
Completed on	Tuesday, 28 May 2024, 8:27 PM
Time taken	6 mins 45 secs
Grade	**12.00** out of 15.00 (**80**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Remove flag

Traversing a dictionary can be done using _____.

a. None of the mentioned
b. if statement
c. loop
d. jump statement

The correct answer is: loop

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

Dictionaries are flexible in nature, means elements can be added or removed from it.

a. False
b. True

The correct answer is: True

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

____ datatype fall under mapping.

a. List
b. Tuple
c. String
d. Dictionary

The correct answer is: Dictionary

Question **4**
Incorrect
Mark 0.00 out of 1.00
Flag question

Which of the following is used to delete an element from Dictionary?

a. delete
b. pop
c. remove
d. None of the mentioned

The correct answer is: pop

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

To obtain the number of entries in dictionary which command is used?

a. d.len()
b. size(d)
c. len(d)
d. d.size()

Your answer is correct.
The correct answer is:
len(d)

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

Following statement return values in the form of: D1.keys() # D1 is a dictionary

a. list
b. dictionary
c. tuple
d. string

The correct answer is: list

Question **7**
Incorrect
Mark 0.00 out of 1.00
Flag question

Only values (without keys) can be printed in dictionary?

a. True
b. False

The correct answer is: True

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

The key-value pair in dictionary is called _____.

a. paired value
b. value
c. pair item
d. item

The correct answer is: item

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of the following Python code snippet?

```
a={}
a['a']=1
a['b']=[2,3,4]
print(a)
```

a. Error
b. {'b': [2], 'a': 1}
c. {'b': [2, 3, 4], 'a': 1}
d. {'b': [2], 'a': [3]}

Your answer is correct.
The correct answer is:
{'b': [2, 3, 4], 'a': 1}

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

Which function helps to merge dictionary 'D1' and 'D2'?

a. get
b. merge
c. update
d. append

The correct answer is: update

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

Which statement is used to create an empty dictionary?

a. d1 =
b. d1 = dict( )
c. d1 = { }
d. d1 = [ ]

The correct answer is: d1 = { }

Question **12**
Incorrect
Mark 0.00 out of 1.00
Flag question

We can repeat the values of Key in Dictionary?

a. True
b. False

The correct answer is: True

Question **13**
Correct
Mark 1.00 out of 1.00
Flag question

1,2,3 are the ____ in the following dictionary. D = {1 : "One", 2 : "Two", 3 : "Three"}

a. Items
b. Values
c. None of the mentioned
d. Keys

The correct answer is: Keys

Question **14**
Correct
Mark 1.00 out of 1.00
Flag question

In Python, Dictionaries are immutable

Select one:
True
False

The correct answer is 'False'.

Question **15**
Correct
Mark 1.00 out of 1.00
Flag question

Keys of dictionary must be _____.

a. unique
b. mutable
c. antique
d. integers

The correct answer is: unique

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Started on	Sunday, 26 May 2024, 9:23 AM
State	Finished
Completed on	Sunday, 26 May 2024, 4:58 PM
Time taken	7 hours 35 mins
Marks	5.00/5.00
Grade	**100.00** out of 100.00

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

An abundant number is a number for which the sum of its proper divisors is greater than
the number itself. Proper divisors of the number are those that are strictly lesser than the number.
Input Format:
Take input an integer from stdin
Output Format:
Return Yes if given number is Abundant. Otherwise, print No
Example input:
12
Output:
Yes
Explanation
The proper divisors of 12 are: 1, 2, 3, 4, 6, whose sum is 1 + 2 + 3 + 4 + 6 = 16. Since sum of
proper divisors is greater than the given number, 12 is an abundant number.
Example input:
13
Output:
No
Explanation
The proper divisors of 13 is: 1, whose sum is 1. Since sum of proper divisors is not greater
than the given number, 13 is not an abundant number.

For example:

Test	Result
print(abundant(12))	Yes
print(abundant(13))	No

Answer: (penalty regime: 0 %)

Reset answer

```
def abundant(n):
    c=0
    for i in range(1,n):
        if(n%i==0):
            c+=i
    if c>n:
        return "Yes"
    else:
        return "No"
```

	Test	Expected	Got	
☐	print(abundant(12))	Yes	Yes	☐
☐	print(abundant(13))	No	No	☐

Passed all tests! ☐

Correct
Marks for this submission: 1.00/1.00.

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

An e-commerce company plans to give their customers a special discount for Christmas.
They are planning to offer a flat discount. The discount value is calculated as the sum of all
the prime digits in the total bill amount.
Write an algorithm to find the discount value for the given total bill amount.
Constraints
1 <= orderValue< 10e100000
Input
The input consists of an integer orderValue, representing the total bill amount.
Output
Print an integer representing the discount value for the given total bill amount.
Example Input
578
Output
12

For example:

Test	Result
print(christmasDiscount(578))	12

Answer: (penalty regime: 0 %)

Reset answer

```
def christmasDiscount(n):
    s=0
    for i in str(n):
        if int(i)==2:
            s+=int(i)
    return s
```

	Test	Expected	Got	
☐	print(christmasDiscount(578))	12	12	☐

Passed all tests! ☐

Correct
Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Write a code to check whether product of digits at even places is divisible by sum of digits
at odd place of a positive integer.
Input Format:
Take an input integer from stdin.
Output Format:
Print TRUE or FALSE.
Example Input:
1256
Output:
TRUE
Example Input:
1595
Output:
FALSE

For example:

Test	Result
print(productOfDigits(1256))	True
print(productOfDigits(1595))	False

Answer: (penalty regime: 0 %)

Reset answer

```
def productOfDigits(n):
    s=str(n)
    e=1
    o=0
    for i in range(len(s)):
        if(i%2!=0):
            o+=int(s[i])
        else:
            e+=int(s[i])
    return e%o==0
```

	Test	Expected	Got	
☐	print(productOfDigits(1256))	True	True	☐
☐	print(productOfDigits(1595))	False	False	☐

Passed all tests! ☐

Correct
Marks for this submission: 1.00/1.00.

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

An automorphic number is a number whose square ends with the number itself.
For example, 5 is an automorphic number because 5*5 =25. The last digit is 5 which same
as the given number.
If the number is not valid, it should display 'Invalid input'.
If it is an automorphic number display 'Automorphic' else display 'Not Automorphic'.
Input Format:
Take a Integer from Stdin Output Format: Print Automorphic if given number is Automorphic number,otherwise Not Automorphic
Example input: 5 Output: Automorphic Example input: 25 Output: Automorphic Example input: 7 Output: Not Automorphic

For example:

Test	Result
print(automorphic(5))	Automorphic

Answer: (penalty regime: 0 %)

Reset answer

```
def automorphic(n):
    digit=int(str(n))
    if(n==(n**2)%(10**digit)):
        return "Automorphic"
    else:
        return "Not Automorphic"
```

	Test	Expected	Got	
☐	print(automorphic(5))	Automorphic	Automorphic	☐
☐	print(automorphic(7))	Not Automorphic	Not Automorphic	☐

Passed all tests! ☐

Correct
Marks for this submission: 1.00/1.00.

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

complete function to implement coin change making problem i.e. finding the minimum
number of coins of certain denominations that add up to given amount of money.
The only available coins are of values 1, 2, 3, 4
Input Format:
Integer input from stdin.
Output Format:
return the minimum number of coins required to meet the given target.
Example Input:
16
Output:
4
Explanation:
We need only 4 coins of value 4 each
Example Input:
25
Output:
7
Explanation:
We need 6 coins of 4 value, and 1 coin of 1 value

Answer: (penalty regime: 0 %)

Reset answer

```
def coinChange(n):
    c=0
    c+=n//4
    n%=4
    c+=n//3
    n%=3
    c+=n//2
    n%=2
    c+=n//1
    n%=1
    return c
```

	Test	Expected	Got	
☐	print(coinChange(16))	4	4	☐

Passed all tests! ☐

Correct
Marks for this submission: 1.00/1.00.

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Started on	Sunday, 26 May 2024, 10:08 AM
State	Finished
Completed on	Sunday, 26 May 2024, 10:16 AM
Time taken	8 mins 52 secs
Grade	**15.00** out of 15.00 (**100**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

The part of the program where a variable is accessible is known as the ____ of that variable

- a. module
- b. scope
- c. none of the mentioned
- d. part

The correct answer is: scope

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of the following Python code?

```
def test(i,j):
  if(i==0):
    return j
  else:
    return test(i-1,i+j)
print(test(4,7))
```

- a. 7
- b. Infinite loop
- c. 17
- d. 13

Your answer is correct.
The correct answer is:
17

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

What will be the output of the following Python code?

```
def maximum(x, y):
  if x > y:
    return x
  elif x == y:
    return 'The numbers are equal'
  else:
    return y
print(maximum(2, 3))
```

- a. 3
- b. The numbers are equal
- c. None of the mentioned
- d. 2

Your answer is correct.
The correct answer is:
3

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

In a program, a function can be called ____ times.

- a. 3
- b. Multiple times
- c. 2
- d. 5

The correct answer is: Multiple times

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

def cal(n1) : What is n1?

- a. Argument
- b. Keyword
- c. None of the mentioned
- d. Parameter

The correct answer is: Parameter

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

Which keyword is used to begin the definition of a function?

- a. def
- b. DEF
- c. Def
- d. Define

The correct answer is: def

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

Function defined to achieve some task as per the programmer's requirement is called a ____.

- a. built in functions
- b. All of the mentioned
- c. user defined function
- d. library function

The correct answer is: user defined function

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

Choose the incorrect statement.

- a. print(pow(2, 3, 2))
- b. print(pow(2.3, 3.2))
- c. None of the mentioned
- d. print(pow(2, 3))

The correct answer is: None of the mentioned

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following number can never be generated by the following code: random.randrange(0, 100)

- a. 1
- b. 99
- c. 100
- d. 0

The correct answer is: 100

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following items are present in the function header?

- a. function name
- b. parameter list
- c. return value
- d. Both A and B

Your answer is correct.
The correct answer is:
Both A and B

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

What is the output of the following display() function call?

```
def display(**kwargs):
  for i in kwargs:
    print(i)
display(emp="Kelly", salary=9000)
```

- a. Kelly
  9000
- b. {'emp', 'Kelly'}
  {'salary', 9000}
- c. emp
  salary
- d. TypeError

Your answer is correct.
The correct answer is:
emp
salary

Question **12**
Correct
Mark 1.00 out of 1.00
Flag question

Which module is to be imported for using randint() function?

- a. randrange
- b. rand
- c. random
- d. randomrange

The correct answer is: random

Question **13**
Correct
Mark 1.00 out of 1.00
Flag question

A variable that is defined inside any function or a block is known as a ____.

- a. Global variable
- b. Local variable
- c. Function Variable
- d. inside variable

The correct answer is: Local variable

Question **14**
Correct
Mark 1.00 out of 1.00
Flag question

A function may return multiple values using ____.

- a. Tuple
- b. String
- c. Dictionary
- d. List

The correct answer is: Tuple

Question **15**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following function headers is correct?

- a. def fun(a = 2, b, c = 3)
- b. def fun(a, b = 2, c = 3)
- c. def fun(a, b, c = 3, d)
- d. def fun(a = 2, b = 3, c)

Your answer is correct.
The correct answer is:
def fun(a, b = 2, c = 3)

Finish review

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Started on	Sunday, 26 May 2024, 9:44 AM
State	Finished
Completed on	Sunday, 26 May 2024, 9:48 AM
Time taken	4 mins 20 secs
Marks	5.00/5.00
Grade	**100.00** out of 100.00

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

Write a Python program to sort a list of elements using the merge sort algorithm.

For example:

Input	Result
5 6 5 4 3 8	3 4 5 6 8

Answer: (penalty regime: 0 %)

```
def merge_sort(arr):
    if len(arr) == 1:
        return arr
    mid = len(arr) // 2
    left_half = merge_sort(arr[:mid])
    right_half = merge_sort(arr[mid:])
    return merge(left_half, right_half)

def merge(left, right):
    merged = []
    while left and right:
        merged.append(left.pop(0) if left[0] < right[0] else right.pop(0))
    return merged + left + right

n = int(input())
arr = list(map(int, input().split()))

print(*merge_sort(arr))
```

	Input	Expected	Got	
☐	5 6 5 4 3 8	3 4 5 6 8	3 4 5 6 8	☐
☐	6 14 46 43 27 57 41 45 21 70	14 21 27 41 43 45 46 57 70	14 21 27 41 43 45 46 57 70	☐
☐	4 86 43 23 49	23 43 49 86	23 43 49 86	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

To find the frequency of numbers in a list and display in sorted order.

Constraints:

1<=n,arr[i]<=100

Input:

1 68 79 4 90 68 1 4 5

output:

1 2

4 2

5 1

68 2

79 1

90 1

For example:

Input	Result
4 3 5 3 4 5	3 2 4 2 5 2

Answer: (penalty regime: 0 %)

```
arr = list(map(int, input().split()))

freq_dict = {}

for num in arr:
    freq_dict[num] = freq_dict.get(num, 0) + 1

sorted_freq = sorted(freq_dict.items())

for num, freq in sorted_freq:
    print(num, freq)
```

	Input	Expected	Got	
☐	4 3 5 3 4 5	3 2 4 2 5 2	3 2 4 2 5 2	☐
☐	12 4 4 4 2 3 5	2 1 3 1 4 3 5 1 12 1	2 1 3 1 4 3 5 1 12 1	☐
☐	5 4 5 4 6 5 7 3	3 1 4 2 5 3 6 1 7 1	3 1 4 2 5 3 6 1 7 1	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Bubble Sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements if they are in wrong order. You read an list of numbers. You need to arrange the elements in ascending order and print the result. The sorting should be done using bubble sort.

Input Format: The first line reads the number of elements in the array. The second line reads the array elements one by one.

Output Format: The output should be a sorted list.

For example:

Input	Result
4 3 4 8 7 1 2	1 2 3 4 7 8
5 4 5 2 3 1	1 2 3 4 5

Answer: (penalty regime: 0 %)

```
n = int(input())
arr = list(map(int, input().split()))

for i in range(n - 1):
    for j in range(n - 1 - i):
        if arr[j] > arr[j + 1]:
            # Swap elements
            arr[j], arr[j + 1] = arr[j + 1], arr[j]

print(*arr)
```

	Input	Expected	Got	
☐	4 3 4 8 7 1 2	1 2 3 4 7 8	1 2 3 4 7 8	☐
☐	8 9 18 1 3 4 6	1 3 4 6 9 18	1 3 4 6 9 18	☐
☐	5 4 5 2 3 1	1 2 3 4 5	1 2 3 4 5	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

An list contains N numbers and you want to determine whether two of the numbers sum to a given number K. For example, if the input is 8, 4, 1, 6 and K is 10, the answer is yes (4 and 6). A number may be used twice.

Input Format

The first line contains a single integer n , the length of list

The second line contains n space-separated integers, list[i].

The third line contains integer k.

Output Format

Print Yes or No.

Sample Input

7

0 1 2 4 6 5 3

1

Sample Output

Yes

For example:

Input	Result
5 8 9 12 15 3 11	Yes
5 2 9 21 32 43 43 1 4	No

Answer: (penalty regime: 0 %)

```
n = int(input())
arr = list(map(int, input().split()))
K = int(input())

seen = set()

for num in arr:
    if K - num in seen:
        print("Yes")
        break
    seen.add(num)
else:
    print("No")
```

	Input	Expected	Got	
☐	5 8 9 12 15 3 11	Yes	Yes	☐
☐	5 2 9 21 32 43 43 1 4	No	No	☐
☐	6 10 42 31 4 8 9 17	Yes	Yes	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

Given an list, find peak element in it. A peak element is an element that is greater than its neighbors.

An element a[i] is a peak element if

A[i-1] <= A[i] >= a[i+1] for middle elements. [0<i<n-1]

A[i-1] <= A[i] for last element [i=n-1]

A[i]>= A[i+1] for first element [i=0]

Input Format

The first line contains a single integer n , the length of A .

The second line contains n space-separated integers,A[i].

Output Format

Print peak numbers separated by space.

Sample Input

5

9 9 10 2 6

Sample Output

10 6

For example:

Input	Result
4 12 3 6 8	12 8

Answer: (penalty regime: 0 %)

```
n = int(input())
arr = list(map(int, input().split()))

peaks = []

if n > 1 and arr[0] >= arr[1]:
    peaks.append(arr[0])

for i in range(1, n - 1):
    if arr[i - 1] <= arr[i] >= arr[i + 1]:
        peaks.append(arr[i])

if n > 1 and arr[-1] >= arr[-2]:
    peaks.append(arr[-1])

print(*peaks)
```

	Input	Expected	Got	
☐	7 15 7 18 8 9 4 6	15 18 9 6	15 18 9 6	☐
☐	4 12 3 6 8	12 8	12 8	☐

Passed all tests! ☐

Correct

Marks for this submission: 1.00/1.00.

Finish review

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PSPP/PUP

Data retention summary

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Started on	Sunday, 26 May 2024, 10:02 AM
State	Finished
Completed on	Sunday, 26 May 2024, 10:07 AM
Time taken	5 mins 18 secs
Grade	**15.00** out of 15.00 (**100**%)

Question **1**
Correct
Mark 1.00 out of 1.00
Flag question

The average case occurs in the linear search algorithm

a. Item is the last element in the array or item is not there at all
b. When the item is not the array at all
c. When the item is the last element in the array
d. When the item is somewhere in the middle of the array

Your answer is correct.
The correct answer is:
When the item is somewhere in the middle of the array

Question **2**
Correct
Mark 1.00 out of 1.00
Flag question

Very slow way of sorting is_____

a. Heap sort
b. Bubble sort
c. Insertion sort
d. Quick sort

Your answer is correct.
The correct answer is:
Insertion sort

Question **3**
Correct
Mark 1.00 out of 1.00
Flag question

Given an array arr = {45,77,89,90,94,99,100} and key = 100; What are the mid values(corresponding array elements) generated in the first and second iterations?

a. 90 and 99
b. 89 and 94
c. 90 and 100
d. 94 and 99

Your answer is correct.
The correct answer is:
90 and 99

Question **4**
Correct
Mark 1.00 out of 1.00
Flag question

_____ explain how an algorithm will perform when the input grows larger.

a. Merging
b. Sorting
c. Searching
d. Complexity

Your answer is correct.
The correct answer is:
Complexity

Question **5**
Correct
Mark 1.00 out of 1.00
Flag question

Finding the location of a given item in a collection of items is called

a. Finding
b. Mining
c. Searching
d. Discovering

Your answer is correct.
The correct answer is:
Searching

Question **6**
Correct
Mark 1.00 out of 1.00
Flag question

Given an array arr = {45,77,89,90,94,99,100} and key = 99; what are the mid values(corresponding array elements) in the first and second levels of recursion?

a. 90 and 94
b. 89 and 94
c. 90 and 99
d. 89 and 99

Your answer is correct.
The correct answer is:
90 and 99

Question **7**
Correct
Mark 1.00 out of 1.00
Flag question

_____sort is the simplest sorting algorithm that works by repeatedly swapping the adjacent elements in case they are unordered in n-1 passes.

a. Selection
b. Bubble
c. Insertion
d. Complexity

Your answer is correct.
The correct answer is: Bubble

Question **8**
Correct
Mark 1.00 out of 1.00
Flag question

_____ search takes a sorted/ordered list and divides it in the middle.

a. Both (1) & (3)
b. Hash
c. Linear
d. Binary

Your answer is correct.
The correct answer is:
Binary

Question **9**
Correct
Mark 1.00 out of 1.00
Flag question

Algorithm design technique used in merge sort algorithm is

a. Backtracking
b. Greedy method
c. Dynamic programming
d. Divide and conquer

Your answer is correct.
The correct answer is:
Divide and conquer

Question **10**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following is not the required condition for a binary search algorithm?

a. There should be direct access to the middle element in any sublist
b. Number values should only be present
Number values should only be present
c. There must be a mechanism to delete and/or insert elements in the list
d. The list must be sorted

Your answer is correct.
The correct answer is:
There must be a mechanism to delete and/or insert elements in the list

Question **11**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following is not a limitation of binary search algorithm?

a. Requirement of sorted array is expensive when a lot of insertion and deletions are needed
b. Binary search algorithm is not efficient when the data elements more than 1500
c. There must be a mechanism to access middle element directly
d. Must use a sorted array

Your answer is correct.
The correct answer is:
Binary search algorithm is not efficient when the data elements more than 1500

Question **12**
Correct
Mark 1.00 out of 1.00
Flag question

What is mean by stable sorting algorithm?

a. A sorting algorithm is stable if it preserves the order of non-duplicate keys
b. A sorting algorithm is stable if it preserves the order of duplicate keys
c. A sorting algorithm is stable if it doesn't preserver the order of duplicate keys
d. A sorting algorithm is stable if it preserves the order of all keys

Your answer is correct.
The correct answer is:
A sorting algorithm is stable if it preserves the order of duplicate keys

Question **13**
Correct
Mark 1.00 out of 1.00
Flag question

_____is putting an element in the appropriate place in a sorted list yields a larger sorted order list.

a. Distribution
b. Selection
c. Extraction
d. Insertion

Your answer is correct.
The correct answer is:
Insertion

Question **14**
Correct
Mark 1.00 out of 1.00
Flag question

Two-way merge sort algorithm is used to sort the following elements in ascending order.
200,470,150,80,90,40,400,300,120,70
What is the order of these elements after second pass of the merge sort algorithm?

a. 40,70,80,90,120,150,200,300,400,470
b. 80,150,200,470,40,90,300,400,70,120
c. 40,80,90,150,200,300,400,470,70,120
d. 200,470,80,150,40,90,300,400,70,120

Your answer is correct.
The correct answer is:
80,150,200,470,40,90,300,400,70,120

Question **15**
Correct
Mark 1.00 out of 1.00
Flag question

Which of the following is not an in-place sorting algorithm?

a. Heap sort
b. Selection sort
c. Merge sort
d. Quick sort

Your answer is correct.
The correct answer is:
Merge sort

Finish review