
Started on Thursday, 14 August 2025, 9:28 PM

State Finished

Completed on Friday, 15 August 2025, 8:12 PM

Time taken 22 hours 44 mins

Question 1 | Correct Marked out of 1.00

Bruce is working on a task that involves manipulating integers. He needs to rotate the digits of an integer to the right by one position.

Write a program to help Bruce accomplish this task using a do-while loop.

Input Format :

The input consists of a single integer **N**.

Output Format :

The output prints the given integer with its digits rotated to the right by one position.

For example:

Input	Result
647	764

Answer: (penalty regime: 0 %)

```
1 n=input().strip()
2 rotated=n[-1]+n[:-1]
3 print(rotated)
```

	Input	Expected	Got	
✓	647	764	764	✓
✓	78436	67843	67843	✓
✓	82644	48264	48264	✓
✓	62734	46273	46273	✓
✓	2836	6283	6283	✓

Passed all tests! ✓

Question 2 | Correct Marked out of 1.00

Ravi wants to estimate the total utility bill for a household based on the consumption of electricity, water, and gas.

Write a program to calculate the total bill using the following criteria:

1. The cost per unit for electricity is 0.12, for water is 0.05, and for gas is 0.08.
2. A discount is applied to the total cost based on the following conditions:
3. If the total cost is 100 or more, a 10% discount is applied.
4. If the total cost is between 50 and 99.99, a 5% discount is applied.
5. No discount is applied if the total cost is less than 50.

The program should output the total bill after applying the discount with two decimal places.

Input Format :

The input consists of three double values, representing the number of units consumed for electricity, water, and gas respectively.

Output Format :

The output prints a double value, representing the total bill after applying the discount, formatted to two decimal places.

For example:

Input	Result
1000.0 200.0 100.0	124.20
500.0 30.0 20.0	59.95
120.0 70.0 45.0	21.50

Answer: (penalty regime: 0 %)

```
1 a=float(input())
2 b=float(input())
3 c=float(input())
4 total=(a*0.12)+(b*0.05)+(c*0.08)
5 if total>=100:
6     total*=0.90
7 elif total>50:
8     total*=0.95
9 print(f"{total:.2f}")
```

	Input	Expected	Got	
✓	1000.0 200.0 100.0	124.20	124.20	✓
✓	500.0 30.0 20.0	59.95	59.95	✓
✓	120.0 70.0 45.0	21.50	21.50	✓

Passed all tests! ✓

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Question 3 | Correct Marked out of 1.00

Alice, an insurance agent, needs a program to calculate the insurance premium for her clients based on their age and health condition.

The premium amount is determined by the following rules:

1. If the client's age is between 18 and 30 years:
2. 'excellent' health condition: 500.0
3. 'good' health condition: 700.0
4. Any other health condition: 900.0
5. If the client's age is between 31 and 50 years:
6. 'excellent' health condition: 700.0
7. 'good' health condition: 900.0
8. Any other health condition: 1100.0

Write a program that takes the age and health condition of a client as input and outputs the corresponding insurance premium.

Input Format :

The first line of input contains an integer representing the age of the client.

The second line contains a string representing the health condition of the client.

Output Format :

The output prints a double value, representing the insurance premium.

For example:

Input	Result
25 excellent	500.0
31 good	900.0
41 poor	1100.0

Answer: (penalty regime: 0 %)

```

1 age=int(input())
2 health_condition=input().strip().lower()
3 if 18<=age<=30:
4     if health_condition=="excellent":
5         premium=500.0
6     elif health_condition=="good":
7         premium=700.0
8     else:
9         premium=900.0
10 elif 31 <= age <=50:
11     if health_condition=="excellent":
12         premium=700.0
13     elif health_condition=="good":
14         premium=900.0
15     else:
16         premium=1100.0
17 else:
18     if health_condition=="excellent":
19         premium=900.0
20     elif health_condition=="good":
21         premium=1100.0
22     else:
23         premium=1100.0

```

```
21     premium=1100.0
22     else:
23         premium=1500.0
24     print(f"{premium:.1f}")
```

	Input	Expected	Got	
✓	25 excellent	500.0	500.0	✓
✓	31 good	900.0	900.0	✓
✓	41 poor	1100.0	1100.0	✓
✓	50 good	900.0	900.0	✓

Passed all tests! ✓

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Question 4 | Correct Marked out of 1.00

Akash is tasked with developing a program that calculates and categorizes blood pressure based on the given systolic and diastolic readings.

The program should use the following classifications:

1. Low Blood Pressure: Systolic < 90 mm Hg or Diastolic < 60 mm Hg
2. Normal Blood Pressure: Systolic \leq 120 mm Hg and Diastolic \leq 80 mm Hg
3. Prehypertension: Systolic \leq 140 mm Hg and Diastolic \leq 90 mm Hg
4. Stage 1 Hypertension: Systolic \leq 160 mm Hg and Diastolic \leq 100 mm Hg
5. Stage 2 Hypertension: Otherwise

Write a program to assist Akash in computing and classifying blood pressure levels based on input readings.

Input Format :

The input consists of two space-separated integers, representing the systolic blood pressure value **S** and diastolic blood pressure value **D**, respectively.

Output Format :

The output displays "Blood Pressure Category: " followed by the blood pressure category based on the provided input.

Refer to the sample output for the exact text and format.

For example:

Input	Result
50 85	Blood Pressure Category: Low Blood Pressure
112 70	Blood Pressure Category: Normal Blood Pressure

Answer: (penalty regime: 0 %)

```
1 s=int(input())
2 d=int(input())
3 if s<90 and d>60:
4     category="Low Blood Pressure"
5 elif 90<=s<=120 and 60<=d<=80:
6     category="Normal Blood Pressure"
7 elif 120<s<=140 and 80<d<=90:
8     category="Prehypertension"
9 elif 140<s<=160 and 90<d<=100:
10    category="Stage 1 Hypertension"
11 else:
12    category="Stage 2 Hypertension"
13 print(f"Blood Pressure Category: {category}")
```


	Input	Expected	Got	
✓	50 85	Blood Pressure Category: Low Blood Pressure	Blood Pressure Category: Low Blood Pressure	✓
✓	112 70	Blood Pressure Category: Normal Blood Pressure	Blood Pressure Category: Normal Blood Pressure	✓
✓	135 86	Blood Pressure Category: Prehypertension	Blood Pressure Category: Prehypertension	✓
✓	145 98	Blood Pressure Category: Stage 1 Hypertension	Blood Pressure Category: Stage 1 Hypertension	✓
✓	170 110	Blood Pressure Category: Stage 2 Hypertension	Blood Pressure Category: Stage 2 Hypertension	✓

Passed all tests! ✓

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Question 5 | Correct Marked out of 1.00

Arun is working on a project to automate the process of determining whether a student has passed or failed based on their subject marks.

He aims to create a simple program that takes positive integers as marks for five subjects from the user. If the average of the marks is greater than or equal to 50, the student has passed the exam. Else, the student has failed.

Help Arun to implement the project.

Input Format :

The input consists of five space-separated integers, representing the marks in five subjects.

Output Format :

The first line of output prints "Average score: " followed by an integer representing the average score.

The second line prints one of the following:

1. If the condition is satisfied, print "The student has passed".
2. Otherwise, the output prints "The student has failed".

For example:

Input	Result
50	Average score: 70
60	The student has passed
70	
80	
90	
39	Average score: 41
25	The student has failed
30	
45	
67	

Answer: (penalty regime: 0 %)

```
1 import sys
2 marks=list(map(int,sys.stdin.read().split()))
3 average_score=sum(marks)//len(marks)
4 print(f"Average score: {average_score}")
5 if average_score>=50:
6     print("The student has passed")
7 else:
8     print("The student has failed")
```

	Input	Expected	Got	
✓	50	Average score: 70	Average score: 70	✓
	60	The student has passed	The student has passed	
	70			
	80			
	90			
✓	39	Average score: 41	Average score: 41	✓
	25	The student has failed	The student has failed	
	30			
	45			
	67			

Passed all tests! ✓

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