## Structure related problems (Total # questions)

No.	Problem statement	Difficulty level
1	Declare a structure of students with three member variables (name, id and cgpa), where name is a string and id are strings, and cgpa is a float value.	*
2	Declare a structure of students with three member variables (name, id and cgpa), where name is a string and id are strings, and cgpa is a float value with <b>default value</b> s.	*
3	Given a structure <b>student</b> , which has three member variables (name, id and cgpa), declare a variable of structure <b>student</b> .	*
4	Given a structure <b>student</b> , which has three member variables (name, id and cgpa), declare a variable of structure <b>student</b> . Display the value of the member variables.	*
5	Given a structure <b>student</b> , which has three member variables (name, id and cgpa), declare a variable of structure <b>student</b> . Assign values to the member variables.	*
6	Given a structure <b>student</b> , which has three member variables (name, id and cgpa), declare a variable of structure <b>student</b> . Populate the member variables from the keyboard.	*

Sample Input		Sample Output	
Shakib Al Hasan		Shakib Al Hasan	
101		101	
3.5		3.5	
Tamim Iqbal		Tamim Iqbal	
102		102	
2.7		2.7	
		ee variables (name, id and	
		rmation of that student w	Ne trie
input of two students a	nd print the info	rmation of that student w utput	Ne trie
Sample Input	nd print the info	rmation of that student w utput	Ne trie
Sample Input  Shakib Al Hasan	Sample O Shakib Al	rmation of that student w utput	Ne trie
Sample Input  Shakib Al Hasan  101	Sample O Shakib Al	rmation of that student w utput	Ne trie
Sample Input  Shakib Al Hasan  101  3.5	Sample O Shakib Al	rmation of that student w utput	Ne trie

Sample Input	ample Input Sample Output	
Shakib Al Hasan	Shakib Al Hasan	
101	101	
3.5	3.5	
Tamim Iqbal		
102		
2.7		
nembers of this struct he area of each triang		
	ure. Now you will have to take input of three triangle e.	t are tire
members of this structo the area of each triang [Triangle Area = (base*	ure. Now you will have to take input of three triangle e. height)/2]	t are tire

1	Area of 1 = 20	
5	Area of 2 = 12	
8	Area of 3 = 6	
2		
4		
6		
3		
3		
4		

You have to declare a structure named triangle. triangle\_id, base and height are the members of this structure. Now you will have to take input of three triangles and find out which triangle has the maximum area using a function.

[Triangle Area = (base\*height)/2]

Sample Input	Sample Output
1	Area of 1 = 20
5	
8	
2	
4	
6	
3	
3	
4	

- 1. Player's name
- 2. Player's country
- 3. Array(size 3) to store runs of 3 matches
- 4. Array(size 3) to store wickets of 3 matches
- 5. Array(size 3) to store points of 3 matches

Count points using the following formula:

- 1. Each wicket = 12 points
- 2. Runs <=25 in a match = 5 points
- 3. 25< Runs<=50 in a match = 10 points
- 4. 50< Runs<=75 in a match = 15 points
- 5. 75< Runs in a match = 20 points

Now, take input of two players and calculate the points for each player for all the three matches.

Sample Input	Sample Output

	I		
Shakib Al Hasan	Match 1:		
Bangladesh	Shakib Al Hasan points: 17		
20	Tamim Iqbal points: 20		
75	Match 2:		
103	Shakib Al Hasan points: 27		
1	Tamim Iqbal points: 20		
1	Match 3:		
5	Shakib Al Hasan points: 80		
5	Tamim Iqbal points: 5		
Tamim Iqbal			
Bangladesh			
100			
109			
17			
0			
0			
0			

The Tigers have clinched a stunning victory over their rivals recently. In that series of three matches, some players put up some amazing performances. Now you have to create a structure named player where you have to store the following information of each player:

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- 1. Player's name
- 2. Player's country
- 3. Array(size 3) to store runs of 3 matches
- 4. Array(size 3) to store wickets of 3 matches
- 5. Array(size 3) to store points of 3 matches

Count points using the following formula:

- 1. Each wicket = 12 points
- 2. Runs <=25 in a match = 5 points
- 3. 25< Runs<=50 in a match = 10 points
- 4. 50< Runs<=75 in a match = 15 points
- 5. 75< Runs in a match = 20 points

Now, take input of two players and calculate the points for each player for all the three matches. And also find man of the match(MOM) for each match based on their points and find out the man of the series on more points overall.

Sample Input	Sample Output
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1	l I		
Shakib Al Hasan	Match 1:		
Bangladesh	Shakib Al Hasan points: 17		
	Tamim Iqbal points: 20		
20	MOM : Tamim Iqbal		
75	Match 2:		
103	Shakib Al Hasan points: 27		
1	Tamim Iqbal points: 20		
	MOM : Shakib Al Hasan		
1			
5	Match 3:		
	Shakib Al Hasan points: 80		
	Tamim Iqbal points: 5		
Tamim Iqbal	MOM : Shakib Al Hasan		
Bangladesh			
100	Man of the Series: Shakib Al Hasan		
109			
17			
0			
0			
0			