

Exam Data Submit Help

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Note:

- Do not include any extra instance/static variables and instance/static methods in the given classes
- Case -insensitive comparison is to be done wherever applicable
- Do not change any value or case of the given variables
- Read notes and examples for better understanding of the logic
- In the derived classes, the order of passing arguments to the constructor would be- base class variables followed by derived class variables

Implementation Details:

Class Name	Implementation Details	
Hall	Partially Implemented	
PartyHall	Partially Implemented	
WeddingHall	Partially Implemented	

Hall Class:

generateId():

- This method auto generates hallid(string)
- The hallId would be prefixed by first character of the hallType followed by the auto-generated value starting from 101
- The auto-generated value will be incremented by 1 for the next hallid
- Use static variable counter appropriately to implement the auto-generation logic





















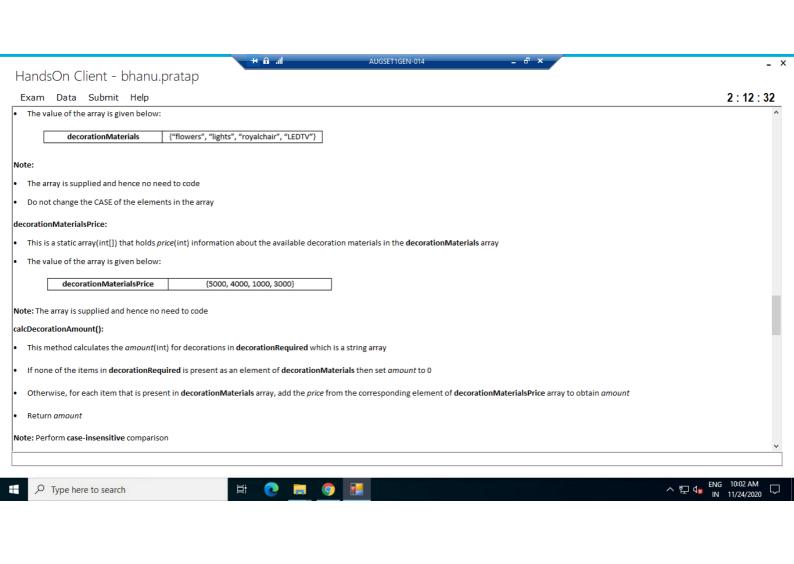
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HandsOn Client - bhanu.pratap

decorationMaterials:

Type here to search

This is a static array(String[]) that has strings which contain information about the available decorations(String)

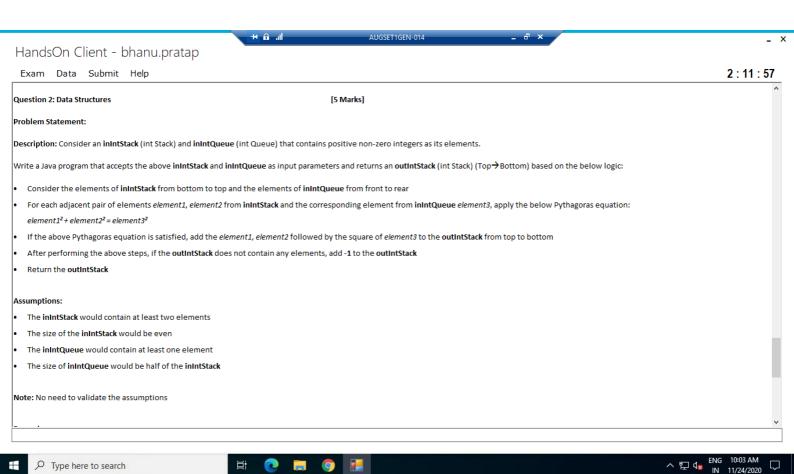


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Description: Consider an inIntStack (int Stack) and inIntQueue (int Queue) that contains positive non-zero integers as its elements.

Write a Java program that accepts the above inintStack and inintQueue as input parameters and returns an outintStack (int Stack) (Top 🛨 Bottom) based on the below logic:

Problem Statement:



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Example:

inIntStack (Top→Bottom): {12, 5, 6, 7, 4, 3}

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inIntQueue (Front→Rear): {5, 6, 13}

outIntStack (Top→Bottom): {3, 4, 25, 5, 12, 169}

Explanation:

- In the above example, the first adjacent elements of inIntStack (Bottom→Top) i.e. element1 and element2 are 3 and 4 respectively and the corresponding element from inIntQueue (Front→Rear) i.e. element3 is 5. Apply Pythagoras equation, 3² + 4² = 5² i.e. 9+16=25 which is satisfied. Hence, add 3, 4 followed by 25 to the outIntStack (Top→Bottom).

 Now the outIntStack (Top→Bottom) would be {3, 4, 25}
- The second adjacent elements of inIntStack (Bottom \rightarrow Top) i.e. element1 and element2 are 7 and 6 respectively and the corresponding element from inIntQueue (Front \rightarrow Rear) i.e. element3 is 6. Apply Pythagoras equation, $7^2 + 6^2 = 6^2$ i.e. 49+36=36 which is not satisfied. Hence, no elements get added to the outintStack.
- The third adjacent elements of inIntStack (Bottom→Top) i.e. element1 and element2 are 5 and 12 respectively and the corresponding element from inIntQueue (Front→Rear) i.e. element3 is 13. Apply Pythagoras equation, 5² + 12² = 13² i.e. 25+144=169 which is satisfied. Hence, add 5, 12 followed by 169 to the outintStack (Top→Bottom).
 - Now the **outIntStack** (Top→Bottom) would be {3, 4, 25, **5, 12, 169**}

Sample Inputs and Outputs:

inIntStack (Top→Bottom)	Stack (Top→Bottom) inIntQueue (Front→Rear)	
{12, 9, 24, 7}	{25, 15}	{7, 24, 625, 9, 12, 225}
{24, 8, 5, 3}	{5, 25}	{-1}
{8, 6, 2, 8, 24, 7, 4, 3}	{5, 25, 16, 10}	{3, 4, 25, 7, 24, 625, 6, 8, 100}

WISH YOU ALL THE BEST





















Δss	um	ntic	ons:

- The inIntStack would contain at least two elements
- The size of the inIntStack would be even
- The inIntQueue would contain at least one element
- The size of inIntQueue would be half of the inIntStack
- •

Note: No need to validate the assumptions

Example:

inIntStack (Top→ Bottom): {12, 5, 6, 7, 4, 3}

inIntQueue (Front -> Rear): {5, 6, 13}

outIntStack (Top→Bottom): {3, 4, 25, 5, 12, 169}

Explanation:

- In the above example, the first adjacent elements of inintStack (Bottom → Top) i.e. element1 and element2 are 3 and 4 respectively and the corresponding element from inintQueue (Front → Rear) i.e. element3 is 5. Apply Pythagoras equation, 3² + 4² = 5² i.e. 9+16=25 which is satisfied. Hence, add 3, 4 followed by 25 to the outintStack (Top → Bottom).
 - Now the outIntStack (Top \rightarrow Bottom) would be $\{3,4,25\}$
- The second adjacent elements of inIntStack (Bottom > Top) i.e. element1 and element2 are 7 and 6 respectively and the corresponding element from inIntQueue (Front > Rear) i.e. element3 is 6. Apply

•	The second adjacent elements of inIntStack (Bottom > Top) i.e. element1 and element2 are 7 and 6 respectively and the corresponding element from inIntQueue (Front > Rear) i.e. element3 is 6. Appl
	Pythagoras equation $7^2 + 6^2 = 6^2$ i.e. $49 + 36 = 36$ which is not satisfied. Hence, no elements get added to the outlintStack

• The third adjacent elements of inintStack (Bottom > Top) i.e. element1 and element2 are 5 and 12 respectively and the corresponding element from inintQueue (Front > Rear) i.e. element3 is 13. Apply Pythagoras equation, 5² + 12² = 13² i.e. 25+144=169 which is satisfied. Hence, add 5, 12 followed by 169 to the outintStack (Top > Bottom).

Now the outintStack (Top \rightarrow Bottom) would be $\{3, 4, 25, 5, 12, 169\}$

Sample Inputs and Outputs:

inIntStack (Top→Bottom)	inIntQueue (Front→Rear)	outIntStack (Top→Bottom)
{12, 9, 24, 7}	{25, 15}	{7, 24, 625, 9, 12, 225}
{24, 8, 5, 3}	{5, 25}	{-1}
{8, 6, 2, 8, 24, 7, 4, 3}	{5, 25, 16, 10}	{3, 4, 25, 7, 24, 625, 6, 8, 100}

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```
//To trainee
public Integer calcDecorationAmount() {
    //Implement your logic here
    int amount = 0;
    for(int i=0;i<decorationMaterials.length;i++)
    {
        if(decorationMaterials[i].equals(decorationMaterials))
        {
            amount=0;
        }
        else
        {
            amount=amount+decorationMaterialsPrice[i];
        }
    }
    //Change the return statement accordingly
    return amount;
}</pre>
```

