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| **Problem Statement:**  Develop a  printDataType(Object o) method using java code to print the type of the object passed as a parameter. It has one parameter: an object, o.   * If the ‘o’ s of type string , then return String. * If the ‘o’ s of type int , then return Integer and so on.   **SubTask1**: Create the class Check  **SubTask2**: After displaying the properties, read the user choice using stdin.  **SubTask3**: Create a method printDataType (o), where o is an object type parameter.  **SubTask4**: Use Swich case statement in main method to call the printDataType method.  **SubTask5**: Identify the class name of the object passed as an argument for the user selected property.  **SubTask6**: Every case should pass corresponding kind of object and include the default case for invalid data .  Note:  1. Do not remove the predefined code else your code may not execute as expected.  2. You’ve to solve the problem using Switch Case ONLY. Solving through any alternate method other than the Encapsulation may lead to disqualification. |
| **Input & Output Format:**  **Input Format**   * The first line of input contains a single integer **N** denoting the number of choices. * Consider the list of the properties for which the appropriate datatype needs to be determined int the order.   + 1.Name   + 2.Eligiblity   + 3.Age   + 4.Salary * In the subsequent line, choose the property number, N where 1<=N<=4. * Enter sample data for the same in next line.   **Output Format**  Displays the datatype of the property as String or Integer or Boolean or Float or Invalid. |
| Sample Input :  3  1  Joshvi  2  True  4  2000.00  **Sample Output:**  String  Boolean  Float |
| **Test Case 1 :**  **Input:**  3  3  22  4  3000.00  1  Viyan  **Output:**  Integer  Float  String  **Test Case 2 :**  **Input:**  2  4  13000.00  1  rithu  **Output:**  Float  String  **Test case 3:**  **Input:**  4  1  Jack  2  False  3  35  4  3456.70  **Output:**  String  Boolean  Integer  Float  **Test case 4:**  **Input:**  4  3  35  4  2456.90  1  Jimin  2  False  **Output:**  Integer  Float  String  Boolean  **Test case 5:**  **Input:**  **1**  5  **Output:**  Unknown type |