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| **Problem Statement:**  **Task**  Develop a  checkCode(s) function using java code. It has one parameter: a string, S, consisting of lowercase alphabetic letters (i.e., a through z). It must return A, B, C, or D depending on the following criteria:   * If the first character in string  is in the set {a,b,c,d,e} then return A. * If the first character in string  is in the set{f,g,h,i,j,k} , then return B. * If the first character in string  is in the set{l,m,n,o,p} , then return C. * If the first character in string  is in the set{q-z} , then return D.   **SubTask 1**: Create a class *CheckInputCode.*  **SubTask2**: Create a function to read a String input using stdin.  **SubTask3**: Create another function *checkCode(s)*, *where* s is a String parameter.  **SubTask4**: Use Swich case statement in *checkCode* method to determine the category.  **SubTask5**: Display the Correct category of the input data.  **SubTask6**: Make function calls from the main method and close the stdin resource properly.  **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 testcases.  The subsequent **N** lines contain single string denoting ‘s’ from stdin*.*  **Output Format**  Displays the category of the input String as A or B or C or D |
| **Sample Input :**  **5**  **azeriya**  **guinea**  **italica**  **xyloglimps**  **volano**  **Sample Output:**  **A**  **B**  **B**  **D**  **D** |
| **Test Case 1 :**  **3**  **brazilica**  **medola**  **yawniya**  **A**  **C**  **D**  **Test Case 2 :**  **2**  **cracikat**  **zamse**  **A**  **D**  **Test case 3:**  **4**  **druzo**  **afixat**  **tramplix**  **alulas**  **A**  **A**  **D**  **A** |