**Convert a sentence into its equivalent mobile numeric keypad sequence**

Submissions: [1826](https://practice.geeksforgeeks.org/problem_submissions.php?pid=3077)  Accuracy:

23.93%

   Difficulty: [Easy](https://practice.geeksforgeeks.org/Easy/0/0/)   Marks: 2

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Given a sentence in the form of a string in uppercase, convert it into its equivalent mobile numeric keypad sequence.



**Input:**  
The first line of the input contains an integer **T**denoting the number of test cases.  For each test case, there is a string **s**as an input.

**Output:**  
For each test case, the output is a string displaying equivalent mobile numeric keypad sequence.

**Constraints:**  
1<=T<=100  
1<=S<=10^5  
'A'<=S[i]<='Z'  
**Note:**Whitespace and alphabets are allowed in uppercase only.  Whitespace is denoted by 0

**Example:  
Input:**  
2  
GEEKSFORGEEKS  
HELLO WORLD  
**Output:**  
4333355777733366677743333557777  
4433555555666096667775553

**Explanation:**  
For obtaining a number, we need to press a number corresponding to that character for the number of times equal to the position of the character. For example, for character C, we press number 2 three times and accordingly.

\*\* For More Input/Output Examples Use ['Expected Output'](https://practice.geeksforgeeks.org/problems/convert-a-sentence-into-its-equivalent-mobile-numeric-keypad-sequence/0#ExpectOP) option \*\*

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<https://practice.geeksforgeeks.org/problems/convert-a-sentence-into-its-equivalent-mobile-numeric-keypad-sequence/0>

1. */\**
2. *\* To change this license header, choose License Headers in Project Properties.*
3. *\* To change this template file, choose Tools | Templates*
4. *\* and open the template in the editor.*
5. *\*/*
6. **package** javaapplication72;
8. **import** java.io.BufferedReader;
9. **import** java.io.IOException;
10. **import** java.io.InputStreamReader;
11. **import** java.util.HashMap;
13. ***/\*\****
14. ***\****
15. ***\* @author Usuario***
16. ***\*/***
17. **public** **class** JavaApplication72 {
19. ***/\*\****
20. ***\* @param args the command line arguments***
21. ***\*/***
22. **static** String ConvertSentence(String s)
23. {
24. *//Dictionary<char, int[]> hash =*
25. *//   new Dictionary<char, int[]>();*
26. HashMap<Character, Integer[] > hash =
27. **new** HashMap();
29. **int** i = 0;
30. **for** (**char** ch = 'A'; ch <= 'Z'; ch++)
31. {
32. *//hash[ch] = new Integer[2];*
33. Integer [] arr = **new** Integer[2];
34. hash.put(ch, arr);
35. }

38. *//hash[' '][0] = 0;*
39. *//hash[' '][1] = 1;*
40. Integer[] arr = { 0, 1};
41. hash.put(' ', arr);

44. **int** cont = 0;
45. **int** ind = 2;
46. **int** pos = 1;
47. **for** (**char** ch = 'A'; ch <= 'O'; ch++)
48. {
50. Integer[] val = {ind, pos};
51. hash.put(ch, val);
52. pos++;
53. cont++;
54. **if** (cont % 3 == 0)
55. {
56. ind++;
57. pos = 1;
58. }
60. }
62. pos = 1;
63. **for** (**char** ch = 'P'; ch <= 'S'; ch++)
64. {
65. Integer[] val = {7, pos};
66. hash.put(ch, val);
67. pos++;
68. }
69. pos = 1;
70. **for** (**char** ch = 'T'; ch <= 'V'; ch++)
71. {
72. Integer[] val = {8, pos};
73. hash.put(ch, val);
74. pos++;
76. }
77. pos = 1;
78. **for** (**char** ch = 'W'; ch <= 'Z'; ch++)
79. {
80. Integer[] val = {9, pos};
81. hash.put(ch, val);
82. pos++;
83. }

86. String concat = "";
87. **for** (i = 0; i < s.length(); i++)
88. {
89. **for**(**int** j =0; j<hash.get(s.charAt(i))[1]; j++ )
90. {
91. concat += hash.get(s.charAt(i))[0];
92. }
93. }
95. **return** concat;
96. }
98. **public** **static** **void** main(String[] args) **throws** IOException {
100. BufferedReader br = **new** BufferedReader(**new** InputStreamReader(System.in));
102. *//int t = int.Parse(Console.ReadLine());*
104. **int** t = Integer.parseInt(br.readLine());
106. **while** (t-- > 0)
107. {
108. String s = br.readLine();
109. System.out.println(ConvertSentence(s));
111. }
113. *//String s = " JVWN";*
114. *//System.out.println(ConvertSentence(s));*

117. }
119. }