

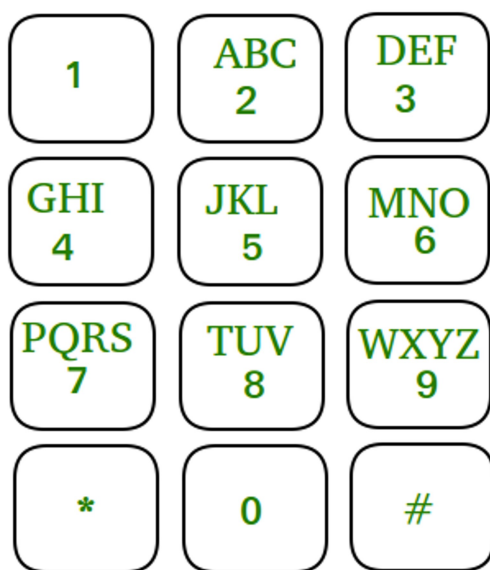
Convert a sentence into its equivalent mobile numeric keypad sequence

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Convert a sentence into its equivalent mobile numeric keypad sequence

- Difficulty Level : [Easy](#)
- Last Updated : 24 Nov, 2021

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



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Examples :

Input : GEEKSFORGEEKS

Output : 4333355777733366677743333557777

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

Input : HELLO WORLD

Output : 4433555555666096667775553

[Recommended: Please try your approach on {IDE} first, before moving on to the solution.](#)

Follow the steps given below to convert a sentence into its equivalent mobile numeric keypad sequence.

- For each character, store the sequence which should be obtained at its respective position in an array, i.e. for Z, store 9999. For Y, store 999. For K, store 55 and so on.
- For each character, subtract ASCII value of 'A' and obtain the position in the array pointed by that character and add the sequence stored in that array to a string.
- If the character is a space, store 0
- Print the overall sequence.

Below is the implementation of above method :

- C++
- Java
- Python3
- C#
- PHP
- Javascript

```
// Java implementation to convert a
// sentence into its equivalent
// mobile numeric keypad sequence
import java.util.*;

class GFG
{
    // Function which computes the sequence
    static String printSequence(String arr[],
                                String input)
    {
        String output = "";

        // length of input string
        int n = input.length();
        for (int i = 0; i < n; i++)
        {
            // Checking for space
            if (input.charAt(i) == ' ')
                output = output + "0";

            else
            {
                // Calculating index for each
```

```

        // character
        int position = input.charAt(i) - 'A';
        output = output + arr[position];
    }
}

// Output sequence
return output;
}

// Driver Function
public static void main(String[] args)
{
    // storing the sequence in array
    String str[] = {"2", "22", "222",
                   "3", "33", "333",
                   "4", "44", "444",
                   "5", "55", "555",
                   "6", "66", "666",
                   "7", "77", "777", "7777",
                   "8", "88", "888",
                   "9", "99", "999", "9999"};

    String input = "GEEKSFORGEEKS";
    System.out.println(printSequence(str, input));
}

// This code is contributed by Gitanjali.
Output :

```

4333355777733366677743333557777

Time complexity : $O(n)$

From <<https://www.geeksforgeeks.org/convert-sentence-equivalent-mobile-numeric-keypad-sequence/>>