One-Day Assignment 1 — algorithmic solution

T9 Spelling

One-Day Assignment 1 – Pseudocode (code-like)

```
Have an array arr mapping a character to its string form (eg. arr['a'] = "2", arr['b'] =
"22", arr[' '] = "0")
outputStr = ""
for curr_char in input_string:
   keypressStr = arr[curr char]
   if (outputStr is not empty) && (last character of outputStr == first character of
   keypressStr):
       outputStr = outputStr + " "
   outputStr = outputStr + keypressStr
print outputStr
```

One-Day Assignment 1 – Pseudocode (English Description)

Start off by using an array arr to map each character to a string with its associated keypresses (so arr['a'] = "2", arr['b'] = "22", arr[' '] = "0").

We also have a string (which we call outputStr) that is initially empty.

Iterate through each character of the input, beginning from the front.

For each character, we get the string keypressStr representing its keypresses by accessing arr[curr_char], where curr_char is the character we are currently on.

If the last letter of outputStr (if outputStr is not empty) is the same as the first letter of keypressStr, then we append a space to outputStr.

Regardless of the result of the above check, we will then append keypressStr to outputStr.

Once we have gone through all the characters in the input, print out outputStr.