# Problem 4 – Hidden Message

Ivancho is in love with Mariika and wrote her a love message. But he decided to test her. Ivancho **encrypted the message** so if she can decrypt it he will be sure she is the one.

The message is: **“Iz zlzozvzez zyzozuz!z!”.** **To decrypt the message** Mariika should **find the code number**. The code number is a **single digit** and comes from the sum of the ASCII code of all symbols in the message**.** In this case **the sum is 2189** (‘I’ (73) + ‘z’ (122) + ‘space’ (32) + … etc.). Then she should **sum the digits of the number: 2 + 3 + 3 + 2 = 10.** She needs a one digit result. So if the result is **greater** than 1 digit, **sum the digit again** until she receives only 1 digit**. 10 -> 1 + 0 = 1.**

**Take the first letter and then –>**

If the **code number is between 1 and 3 take every second one.** In this case the code number is:  **“Iz zlzozvzez zyzozuz!z!”.** Decrypted message will be: **“I love you!!”**

If the **code number is between 4 and 6 every third one:**

**For example: “E..v..e..r..y.. ..t..h..i..r..d.. ..o..n..e” -> “Every third one”.**

And if **the code number is between 7 and 9 take every fourth one:**

**For example: “b123a123n123a123n123a” -> “banana".**

**Input**

The input data should be read from the console and will **contain** a **single string**.

**Output**

The output should be printed on the console. It should **contain the decrypted message.**

**Constraints**

* The input string will contain **only ASCII symbols with a minimum length of 3.**
* Allowed working time for your program: 0.25 seconds.
* Allowed memory: 16 MB.

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| --- | --- | --- |
| **Input** | **Output** | **Comments** |
| Iz elsofvgek iyoopup!m! | I love you!! | Code number is: 2189 (‘I’ (73) + ‘z’ (122) + ‘space’ (32) + … etc.). -> 2 + 3 + 3 + 2 = 10 -> 1 + 0 = 1 |
| **Input** | **Output** | **Comments** |
| Wesdeqwelrewcfvdovbgmrtyegfr dxbtmkiohgy fcsSfrtohjifjkltgfdwwqea345rtrfeset gfdUsernhyiibgjvkufedsertyusgggisastdsaydfg! | Welcome to Software University! | Code number is: 8 |