

Python Programming

String Homework 1

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Teaching, Training and Coaching since more than a decade!

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Homework 1: Is Palindrome?

- A palindrome is a string reads the same backward as forward
 - E.g. madam, racecar, 11/11/11, 12321
- Read a string and print YES if palindrome and NO if not.
 - Note: Whenever I write string, by default no spaces

Homework 2: Convert to number

- Read a string, convert it to int then print **number number*3**
 - Note: Don't use the `int()` function. We will write our function
 - Define function: `def our_int(string):`
- Input \Rightarrow output
 - "100" \Rightarrow 100 300
 - "0000200" \Rightarrow 200 600

Homework 3: Grouping

- Read a string ($sz > 0$) of letters and digits, then divide it to consecutive groups of the same character (regardless of casing lower or upper).
- Print the group **comma separated**. No comma after last one
- Input \Rightarrow outputs
 - 111222aabbba \Rightarrow 111,222,aa,bbb
 - HHHH \Rightarrow HHHH
 - 5 \Rightarrow 5
 - abcddeefa \Rightarrow a,b,c,ddddd,ee,f,a
 - abcdDdDdeEfa \Rightarrow a,b,c,dDdDd,eE,f,a

Homework 4: Conc Strings

- Read a line of 2 strings: S and T
- Print a new string that contains the following:
 - First letter of the string S followed by the First letter of the string T.
 - Second letter of the string S followed by the Second letter of the string T.
 - and so on...
 - Once one of them is finished, print the remaining of the second
- Input \Rightarrow Output
 - abc defghi \Rightarrow adbecfghi
 - AM CICPC \Rightarrow ACMICPC

“Acquire knowledge and impart it to the people.”

“Seek knowledge from the Cradle to the Grave.”