Problem 3 - Invisible Ink

Professor Plum has a hard time remembering all of his passwords. He decides to store all of his passwords in a text file. To prevent someone from opening the text file and viewing his passwords, he encrypts the file using only the white-space characters of blank-spaces (' ', ASCII character 32_{10}) and horizontal-tabs ('\t ', ASCII character 9_{10}). Thus, someone opening the file will see only a blank screen.

Every 7 space/tab characters in the file encodes a binary number where spaces represent 0s and tabs represent 1s. Each 7-bit binary number encodes for an ASCII value between 0-127. (NOTE: ASCII and UNICODE values are equal in this range)

Professor Plum has written the program to encrypt the passwords to a text file containing only spaces and tabs. He wants you to write the program to decrypt this file back to the characters for the passwords.

Input

The input contains a single line containing only a multiple of 7 spaces and tabs, except for the ending new-line character. For example the following input (where a space is shown as s and a tab is shown as a t) encodes the string Hi Bob!. (ASCII value: H is 72_{10} or 1001000_2, i is 105_{10} or 1101001_2, ..., ! is 33_{10} or 0100001_2)

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tsstsssttstsstsssssstsssststtsttttttssstsstssssst
```

Output

The output contains only the decrypted characters corresponding to the input. For the above example, the output would be:

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Hi Bob!
```