**10. Where is it?**

**Program Name: Where.java Input File: where.dat**

The Assyrians know where the Holy Grail is, and they would like to tell King Arthur, but they cannot communicate in English. They would like you to help them write a translation to get from Assyrian to English so they can instruct Sir Arthur to the location of the Holy Grail.

To get from English to Assyrian, the first syllable must be replaced according to the following chart, then suffixed with ‘ay’.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| English: | A | B | C | D | E | F | G | H | I | J | K | L | M | N |
| Assyrian: | V | U | W | T | X | R | Y | Q | Z | P | O | SH | N | M |
| English: | O | P | Q | R | S | T | U | V | W | X | Y | Z | SH | GR |
| Assyrian: | H | I | G | J | L | E | K | D | C | B | A | F | GR | S |

Given words in Assyrian, translate them to English for King Arthur.

Input

A paragraph of text in Assyrian.

Output

The same paragraph of text in English.

**Assumptions**

Assyrians and Britons do not need punctuation.

Example Input File

RIRSTAY AOUAY NUSTAY YOAY EOAY EHEAY XDGEAY HFAY EHEAY XARTHAY CHEREAY EHEAY QEAVENSAY NEETAY QELLAY VNDAY EURNAY SHEFTAY PESUSAY NUSTAY QAVEAY EAKENAY EHEAY SAILAY CITHAY QIMAY HNAY QISAY POURNEYAY UACKAY ZFAY AOUAY LTARTAY QEREAY AOUAY QEADAY MORTHAY RORAY NANYAY TAYSAY VNDAY NANYAY MIGHTSAY VNDAY AOUAY CILLAY RINDAY EHISAY ILACEAY VFTERAY EHISAY POURNEYAY CESTAY UECOMESAY XASTAY VNDAY XASTAY

Example Output To Screen

FIRST YOU MUST GO TO THE EDGE OF THE EARTH WHERE THE HEAVENS MEET HELL AND TURN LEFT JESUS MUST HAVE TAKEN THE GRAIL WITH HIM ON HIS JOURNEY BACK IF YOU START HERE YOU HEAD NORTH FOR MANY DAYS AND MANY NIGHTS AND YOU WILL FIND THIS PLACE AFTER THIS JOURNEY WEST BECOMES EAST AND EAST